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<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(752)

<223> n = a,t,c or g

<400> 453

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 <213> Homo sapiens

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 <213> Homo sapiens

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&lt;210&gt; 458

&lt;211&gt; 1842

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 458

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 <211> 1477  
 <212> DNA  
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&lt;210&gt; 462

&lt;211&gt; 458

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (458)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 462

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&lt;210&gt; 463

&lt;211&gt; 1280

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

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atatactatt	aaaattaaaa					1280

<210> 464  
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 <212> DNA  
 <213> Homo sapiens

<400> 464	
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<210> 465
<211> 754
<212> DNA
<213> Homo sapiens

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<400> 465
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cttatgcttt tgtgctgtat ggacagtttg gggctcttgg atacattcca gtggctatca 180
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<210> 466
<211> 718
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(718)
<223> n = a,t,c or g

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<400> 466
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nnnnnnnnnn ttcccaaaat ggggggaaaa acctttgcat atggccgaat aaacccacc 660
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<210> 467
<211> 4710
<212> DNA

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&lt;213&gt; Homo sapiens

<400> 467

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&lt;210&gt; 468

&lt;211&gt; 1277

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (1277)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 468

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 gggttcaaaag tgtcaat 1277

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 <211> 659  
 <212> DNA  
 <213> Homo sapiens

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 tctgttgtcc cctgaggtcg tgggtgectct tgctctgggc cctggattct ctggatectg 180  
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 gatggcacag cccccgggaa ttgaacagtt gggtcacaaa ggaaacccat atgctgcagg 540  
 gttgtctggc gctgtggggg attccacttt gccccgtttt caaaaatcaa taaccgggga 600  
 aaaaatgggc cattgccacc tgaggagggg gcccttcgcc tttttttatc tagaggcac 659

<210> 470  
 <211> 1103  
 <212> DNA  
 <213> Homo sapiens

<400> 470  
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 cagaccactg tctactacata tcggggaagg aaacaaagaa aaaagataca atttgctacc 180  
 ggaaatcacc agtcagcaca aagctatagt gagctcttaa gcctgtctct ctctttttct 240  
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 gataactatt tcttgaagga tggcagaggc tccagcccaa cgtttaccca cctcttccc 420  
 caccacagtg gacgcacact gctcctaaca taccagatg tacattcggg ggcagttgca 480  
 gtttggaac tacgcctacc tagaaacatt ttgaaatgcc aagttgtttt aaacttgat 540  
 gattaattca aataataacc tttcactaat accatcagct cttgattgtt cacaagccat 600  
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 gctgctctgc cagagggagg gccttgaaa acaaagagct gcgacttcaa atcaatccat 720  
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 ttgtgtttat atgccccaaac cttttattaa tttaacgggc gactttattt acgtctcaac 960  
 aagtcgtgga atctctttta taaattctct acaattcttt ttaagaaaaa gaggggctta 1020  
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 aaccggcgc cgccgtata tct 1103

<210> 471  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

```

<400> 471
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gtcgggtgtg ctcctgctgc tcacgctggc cctttgctgc taccgggcaa atgcagtggg      120
ctgccaaagct cttggttctg aaatcacagg cttcttatta gctggaaaac ctgtgttcaa      180
gttccaactt gccaaattta aggcacctct ggaagctgtt gcagccaaga tgggaagtga      240
gaaatgcgtg gatacgatgg cctatgagaa aagagtgtcta attacaaaaa cattgggaaa      300
aatagcagag aaatgtgatc gctgagatgt aaaaagtttt taatgctagt ttccaccatc      360
tttcaatgat accctgatct tcactgcaga atgtaaagggt ttcaacgtct tgctctaata      420
aatcacttgc cctg                                     434

```

<210> 472

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (829)

<223> n = a,t,c or g

```

<400> 472
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gtgattttctg tttgaggggt ttgtgtgatc atctaacaac aaaggagctg ggaaccaaga      180
aagttgggtc aataataaca atgactacat taatccagta tcatgccagg ttctattcta      240
agcaatttac atgtattact taagtatttg tttacatttg cggaagtttt cettgtcccg      300
ggccatttca atgtgttatt tttatctcta cgtttagaaa ctttgacctt ttttgttttg      360
tggcttgtcc cttatttgat ttaaaaagtc attatatggc caggcgtggg ggctcacgcc      420
tgtaatccca gcactttggg aggccaaagg gggcagatca cctgaggcca gtagtccaag      480
accagcctga ccagcaagga gaaactcca tctctactaa aatacaaaat tatccgggtg      540
tgggtgatgca tgcctgtaat ccagctactc ccagaggtcg aggcaggaga atcgctttaa      600
ccctgaggcg gaggttcag agagctgaga ttccgccatt gcactccagc ctgggcaaca      660
aagtgaaaact ccatctcaaa aaaaaaaagg gggggccctt aaaaagacaa atttataaac      720
cggggtttga aaaaaatttt tttttggggc ccaaatttaa ttcccgccc gggttttaaac      780
gggggagggg ggaagaagn ngngnngcg agcacacccc tcccgcccc      829

```

<210> 473

<211> 926

<212> DNA

<213> Homo sapiens

```

<400> 473
tttcgtgggt gctcactcct gtaatcccag ctactcatga ggctgaagca ggagaatcac      60
ttaaaccctgg gaggcggagg ttgcagttag ctgagatcgc accactgcac tccagcctgg      120
gcaacagagt gagactctgt ctcaaaaaac agagtattac aagagatgac acatttgaaa      180
cacttgaac agtgctgggc atggagtagt cactctgaaa tgtagcagc attaccatct      240
tcatgatatg gctggcattg tgctggagat gccaaattaa taaggcctct gaggtcaca      300
gtctgaggag ggagggagct aactatcctt gtgtgctacc acaccacaag taaaacataa      360
acaagggtgtg acaggaaccc aaaacaagga ggcaccaggg tctgggctgg gtcagcttcc      420
taaaggctgg gccttaaaag acaaataggc ttttaagctc ttgaggtcgg agtgggggac      480
agttggaggt gagtagagtc gaacttgggt agggcctgtg gtagaaacta tctgagggcc      540

```



aaaggccagg	gtcattgctc	tcctatatgc	tccagctgtc	agagctgtag	accagatgga	600
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agcctgggtg	gttccctagg	caaccagtgg	ccattactgg	ggagggaagg	ggacgaatga	720
gggtggacaa	gacaaggggc	atttcccctt	gccaccacgt	tagaaatagg	aaggaccttc	780
cgggagaag	ggttcccctt	gccaccacgt	tagaaatagg	aaggaccttc	cgggagaag	840
ggttcccctt	gccaccacgt	tagaaatagg	aaggaccttc	cgggagaag	ggttcccctt	900
gccaccacgc	cgaccctatg	cagtct				926

<210> 474  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<400> 474						
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ggcgagagc	tggggccact	cttcggagca	ggatggactc	aggggtcccga	ggcaagtcag	180
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gcttattgga	gacaaggtgt	atcagggcga	aattacagag	agagaaaaga	agagtgggtga	420
tagggtaaaa	gagaaaagga	ataaaaccac	agaagaaaat	ggagagaagg	ggactgaaat	480
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ggagcttctg	cagaggcgcc	tgggcaagta	cgagcacagc	atcagcgtgc	ggccccagca	600
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ggaggtg						667

<210> 475  
 <211> 1519  
 <212> DNA  
 <213> Homo sapiens

<400> 475						
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cgggcaggtg	gcagcattcc	cgtggctgct	cctgctgctg	gctggggcct	cccggctcct	180
ggccggcttc	ctggcctgga	cctatgcctt	ctatgacaac	tgcgcgcgcc	ttcagttactt	240
tcacaaccc	ccaaaacaga	aatggttttg	gggtcaacca	ggacctcctg	ctattgcgcc	300
caaggatgat	ctctccatca	ggttcctgaa	gccctggcta	ggagaaggga	tactgctgag	360
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cactcaggg	attgatgatt	ttttcaaaga	caaagccaag	tccaagactt	tggatttcat	840
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agtggtcctg gcgttgatgc tgctgcactt cgggttcctg ccagaccaca ctgagccccc 1440
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gaatgtaagc ttgcagtga

```

```

<210> 476
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<400> 476
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tctatcagta gtcagctttt accaagacta gcctggcacc agggtttagcg aactatggcc 180
tgctgcctgt ttttgaatgg ctcattggcta agcatggctt taaaattttt taattgttgg 240
ggaaaaaaaa tcaaaagaat aatattttat gtgaaaatta tgaaatttaa atttcagtgt 300
ccacaaataa acacagccac gtacattcat ttacatgggt gcttttgcac ttcaatggca 360
gaattgagta gtttagcagag accatatggt ccacaaagcc taaaatattt actatttggc 420
cttttacaga aaaagcttgc tgaaccctgg tctggcaggt agctacagca gataaattga 480
taactttaca taaaataggg cagggcacgg tggctcacat ctgtaatcgc agcactctgg 540
gagggcggagc aggggtggatc acctgagatc acgggtttga cacttgaccc aacccttggg 600
attcaagatg ttgggtccta aacttccc
628

```

```

<210> 477
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (377)
<223> n = a,t,c or g

```

```

<400> 477
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ctcaactttg tcaagaccca ccctctgatg gacgaggcgg tgccctcgct gggccatgcg 180
ccctggatcc tgcggacct gatgaggtcg gtccctggaga ggcagggcat ggcgagggga 240
gacaggatgg ggtagatgga gggtagaggg atccagatgc tcaacacaga tgagcccatg 300
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acaccaggaa ttgtatt
377

```

```

<210> 478
<211> 1247
<212> DNA
<213> Homo sapiens

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<400> 478

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tcacagcacc	cacggaaaga	gcctggctag	gaaactgcag	cctgggtcct	ggcagacagt	180
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&lt;210&gt; 479

&lt;211&gt; 2070

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

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<210> 480  
 <211> 4686  
 <212> DNA  
 <213> Homo sapiens

<400> 480

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&lt;211&gt; 1048

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 481

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<212> DNA
<213> Homo sapiens

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&lt;211&gt; 861

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 488

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&lt;210&gt; 489

&lt;211&gt; 848

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (848)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 489

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 852  
 <212> DNA  
 <213> Homo sapiens

<400> 493  
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<210> 494  
 <211> 849  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
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 aaaaaaac 849

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 <211> 950  
 <212> DNA  
 <213> Homo sapiens

<400> 495  
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<210> 496  
 <211> 838  
 <212> DNA  
 <213> Homo sapiens

<400> 496  
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&lt;210&gt; 497

&lt;211&gt; 598

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

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&lt;210&gt; 498

&lt;211&gt; 1902

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 498

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<211> 2122

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n = a,t,c or g

<400> 499

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<212> DNA

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<400> 500

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<210> 501

<211> 511

<212> DNA

<213> Homo sapiens

<400> 501

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<210> 502

<211> 964

<212> DNA

<213> Homo sapiens

<400> 502



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 <212> DNA  
 <213> Homo sapiens

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4179

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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<220>  
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<212> DNA
<213> Homo sapiens

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<211> 842
<212> DNA
<213> Homo sapiens

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&lt;400&gt; 542

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&lt;210&gt; 543

&lt;211&gt; 1100

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

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&lt;210&gt; 544

&lt;211&gt; 939

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

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 <212> DNA  
 <213> Homo sapiens

<400> 545						
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ctttaaagtc	ttgtgtataa	aactgacagg	aatagtatta	actttggttt	aaaacagggg	1020
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<210> 546  
 <211> 715  
 <212> DNA  
 <213> Homo sapiens

<400> 546						
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&lt;210&gt; 547

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(812)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 547

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&lt;210&gt; 548

&lt;211&gt; 578

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 548

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atcccccccc ccccttgggtg aagagtagag gccaccac 578

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&lt;210&gt; 549

&lt;211&gt; 428

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 549

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tccctcaagc tcagcaagct gagacaggaa actccttcca gctcccacat aaacgtgagt      240
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caagacaaga ttacaaaact ttgtgttgca ctgatggctg ttccatgact gatttgagtg      420
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&lt;210&gt; 550

&lt;211&gt; 849

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 550

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&lt;210&gt; 551

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (648)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 551

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 <212> DNA  
 <213> Homo sapiens

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gcttgtttta	agtacctgtc actgactcat tccccactg aagcctaacc ttcctttttt 660
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 <212> DNA  
 <213> Homo sapiens

<400> 553	
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<210> 554  
 <211> 836  
 <212> DNA  
 <213> Homo sapiens

<400> 554

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&lt;210&gt; 555

&lt;211&gt; 1765

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

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&lt;210&gt; 556

&lt;211&gt; 1044

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 4057

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 575

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&lt;210&gt; 576

&lt;211&gt; 1015

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 576

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&lt;210&gt; 577

&lt;211&gt; 1070

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 577

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&lt;210&gt; 578

&lt;211&gt; 5597

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 578

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<210> 589  
 <211> 794  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

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<210> 591
<211> 860
<212> DNA
<213> Homo sapiens
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<211> 825
<212> DNA
<213> Homo sapiens
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 gtcagcatat agggacagaa tataactaca cattaataat ttctcaagta tttatttttag 420  
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<210> 595  
 <211> 611  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n = a,t,c or g

<400> 595

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<210> 596
<211> 644
<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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gatggagcgg cactngnaaa ggataaccac cctcaccggg cacagtctgg atgtggggaa      540
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<210> 597
<211> 3834
<212> DNA
<213> Homo sapiens

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<400> 597
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tcttacttct cagtgcctgt tttgtcacca gttctcttgg aggaacagac aaggagctga      240
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&lt;210&gt; 598

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 598

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&lt;210&gt; 599

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 599

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<210> 606
<211> 1433
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (1433)
<223> n = a,t,c or g

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<400> 606

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&lt;210&gt; 607

&lt;211&gt; 363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 607

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tct						363

&lt;210&gt; 608

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 608

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ttcacaagtt	tagacaagtt	tgatcatggg	aacaatgaga	aactatgctc	atgattgttc	360
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aaaagattgg ctggatgtgg gaactcacac ctgttattcc agtactttgg gaggcataatg 540
caagagggatt gctgggaccc cacaatttga taccagccta atgtctctac ca 592

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<210> 609
<211> 592
<212> DNA
<213> Homo sapiens

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<400> 609
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tccgcaacgg ggaggagaa agatgaaggc aggaaatgaa gttgctgaca gattgagctg 420
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gaagggggatt ttgctgagg aatcgttgga cggagggagg attgatttcg gtactttgag 540
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<210> 610
<211> 408
<212> DNA
<213> Homo sapiens

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<400> 610
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ctagggtttc tgtgcatgga tccaaccatc ccagccttgg gtacagaact gacatcaatc 180
aataggaccg aggagaccca tcttcaacat tgtggcatgg agatcatgat cctcatgttg 240
ctgctcctca tcgttgacct ggtccagctg gcaggaaatg cagtcatttc ctctggctcc 300
tgggattccg catgcacagg aacaccttct ccctctacac cctcaacctg gccggggccg 360
acttcttctc ctgctcccag attttagaaa ttgtgaattt ctaccatg 408

```

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<210> 611
<211> 594
<212> DNA
<213> Homo sapiens

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<400> 611
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attagtttta ttatttttcc tttggattgt atcatacagt aaaaaacaaa ttaaagacac 180
at ttgccaaa accaaaaata ctgttgccag aattttactt agcattcctg acttaccaag 240
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ctcatgcttg taatcccagc actttgggag gccgagacaa gtggatatct tgagctcggg 540
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<210> 612  
 <211> 339  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(339)  
 <223> n = a,t,c or g

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 tcgccagcat cgaaaacaac aaggttatca taaggactcc agngtttttt cctctaccac 240  
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<210> 613  
 <211> 324  
 <212> DNA  
 <213> Homo sapiens

<400> 613  
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 atgtgctatt tgcattctac tttacttggt gaataagaaa actgtgtggc gttgttctag 180  
 aatccatcat aataatactg tgggtgtgac acgggaaaagc agtccatttc ttacgacttg 240  
 cacactgagc agtgatttgc tgacaaaagc atagcggact gtgtggaagc cctgctgggc 300  
 tgctatttaa ccagctgtgg ggag 324

<210> 614  
 <211> 3629  
 <212> DNA  
 <213> Homo sapiens

<400> 614  
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&lt;210&gt; 615

&lt;211&gt; 1065

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 615

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&lt;210&gt; 616

&lt;211&gt; 1927

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 616

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 <211> 1366  
 <212> DNA  
 <213> Homo sapiens

<400> 617  
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<210> 618  
 <211> 946  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n = a,t,c or g

<400> 618  
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 agcaggaccc agcctgactt gccagctacc acttatgatt cagagactag gaatccgtga 180  
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 aatgtaattt gtgaccaggt gagttagtca ctttgtagtg gcatttttga ttctctttca 540



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cccggctggt	cataaattcc	tgagctgaag	acattcctgt	acctcaggct	accaaagtgc	840
tgggattaca	gaccattgag	ccacttgac	ccggcccta	gnaattcttc	tatattaaaa	900
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<210> 619  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 619						
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aggttgccga	ggctgatgcc	catgattttc	tatgtgatac	tgtcttctcc	gtcatcaaga	180
acatttttta	agattactct	tattatgtct	ctgggattaa	tctccaagct	gctgattaca	240
tcgtgcacgt	ttgatactgt	cactttcatg	atgttaacca	atatcacgaa	aatgaaaatt	300
tcacaggaa	aagcaactca	gtcccaagag	tttttcagt	agctcattct	ttat	354

<210> 620  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 620						
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tcttctcttg	ggctggggga	gcagccgtcc	tggctgtggg	catctggacc	ctgggtggaga	180
agagtggcta	cctcagcgtc	ctggcctcca	gcacctttgc	cgcctccgcc	tacatcctca	240
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<210> 621  
 <211> 873  
 <212> DNA  
 <213> Homo sapiens

<400> 621						
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gctaaatgat	cattataatc	attattaaat	atttattaag	cacttctagc	tgtgcaaac	180
taataagatg	tggectcagc	tcttaaaatc	tttcttctta	attccaaccc	aaattcattt	240
caacttaacc	aatcttctt	cttgagaag	gagggaactt	cggcgttttg	tctgggttcc	300
catgcccag	cttataggag	cttcttagca	atgctgtgga	gcagatgcta	ttgacttcag	360
tttacagata	aggaaacaat	cagactgagg	aagctagtat	taataagtag	cagagattaa	420
gatttgccctg	tggttctttt	ttacacaaag	cctctccac	tcctttcatg	cactgttagc	480
caagtttact	agaataggca	acttcctttt	taaaaaatcc	tgtttacatt	ttaggtgcca	540

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<210> 622  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<400> 622	
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<210> 623  
 <211> 923  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (923)  
 <223> n = a,t,c or g

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<210> 624  
 <211> 1101  
 <212> DNA  
 <213> Homo sapiens

<400> 624						
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<210> 625  
 <211> 1077  
 <212> DNA  
 <213> Homo sapiens

<400> 625						
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gcaagtattt	cctgacttga	tatgttatta	agaaaaactg	gaaatataga	ttttttatta	240
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aagttctacc	ccgccacaca	ctcgcagttc	cattcaggct	acgcctgtcc	gtctcgcccc	1020

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<210> 626  
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 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1085)  
 <223> n = a,t,c or g

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 taagtaaggg ggttaagtgt ggcacgggac gaaggaaagc gaaggagggt gatacgcggt 1020  
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<210> 627  
 <211> 838  
 <212> DNA  
 <213> Homo sapiens

<400> 627  
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 catgccctgg ctggtctggc catgtctgga gcacctgtgt ggttatgaga accttgcaa 360  
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 tactggggag ggaccaaag ggatttggga ctaatctgtc acatggggag ttagggcatc 480  
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 cgcctccacc ccctagccac ctttccccgc ctgcggtgcc caacaatect tctccccct 780  
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 <212> DNA  
 <213> Homo sapiens

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 aatcgctgtg caaatgaatt aacagttcag tttcttataa ttttagcttt ccaaactcatg 420  
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<210> 629  
 <211> 913  
 <212> DNA  
 <213> Homo sapiens

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&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 631

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&lt;210&gt; 632

&lt;211&gt; 1716

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

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&lt;210&gt; 635

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(384)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 635

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&lt;210&gt; 636

&lt;211&gt; 1201

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 636

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 <213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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&lt;210&gt; 641

&lt;211&gt; 418

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (418)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 641

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&lt;210&gt; 642

&lt;211&gt; 731

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

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&lt;211&gt; 956

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

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&lt;210&gt; 644

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 644

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&lt;210&gt; 645

&lt;211&gt; 904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 645

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 <213> Homo sapiens

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 <212> DNA  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

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&lt;211&gt; 743

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 654

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&lt;210&gt; 655

&lt;211&gt; 1524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 655

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&lt;210&gt; 656

&lt;211&gt; 993

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<210> 657
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<212> DNA
<213> Homo sapiens

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&lt;210&gt; 659

&lt;211&gt; 844

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(844)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 659

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&lt;210&gt; 660

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 660

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1372  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1192  
 <212> DNA  
 <213> Homo sapiens

<400> 663						
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 <212> DNA  
 <213> Homo sapiens

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<400> 666  
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 <212> DNA  
 <213> Homo sapiens

<400> 667  
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 <212> DNA  
 <213> Homo sapiens

<400> 668						
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<210> 669  
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 <212> DNA  
 <213> Homo sapiens

<400> 669						
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<210> 670  
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 <212> DNA  
 <213> Homo sapiens

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<210> 671  
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 <212> DNA  
 <213> Homo sapiens

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<210> 672  
 <211> 1245  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
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aagcaaattt	gagctgagga	aaagcccagt	tttcagtgat	gaggattctg	accttgactt	540
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<210> 673  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<400> 673						
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atttgagaat	ttcttcacat	ttttatttac	ttgattgttt	atgttattgg	agttgaaaat	360
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<210> 674  
 <211> 1138  
 <212> DNA  
 <213> Homo sapiens

<400> 674						
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taaaaaata	ctattgtatg	ttattaaaaa	tgaaacagaa	taaaaaactc	aagaaaatta	240
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<210> 675  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 675						
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<210> 676  
 <211> 609  
 <212> DNA  
 <213> Homo sapiens

<400> 676						
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<210> 677  
 <211> 999

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 677

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&lt;210&gt; 678

&lt;211&gt; 603

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 678

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aac                                                603

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&lt;210&gt; 679

&lt;211&gt; 374

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(374)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 679

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<210> 680

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (715)

<223> n = a,t,c or g

<400> 680

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<210> 681

<211> 757

<212> DNA

<213> Homo sapiens

<400> 681

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<210> 682  
 <211> 1660  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (1660)  
 <223> n = a, t, c or g

<400> 682  
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 tcaagcagtt ctgtcctcag cctcccaaata tgctgggatt acaggcatga gccaccatga 180  
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 cataggttta agaattaaat ggaataatat aaattactag gtcaacaaga atatttcatg 420  
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<210> 683  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
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 catgcccact ccgagcctg gacgctgctg ccggggcctc cagcccagca gcacagcact 300  
 cgctgtgga ccttttcaaa tatggctggt gtggagctgt gccagggcc ccagccagcg 360  
 ggtctgctg cccctgttgg gaggacgccc cctgtcctct ctgctttcac aacaacctct 420  
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<210> 684  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
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 tattttgaac atcagcagct gaggcaactg aacatgtttc tgtgctgtct tgcaccact 180  
 tctctttgga agcttccat gtattactgc acaccttttc catgcctcct ctgtcctccg 240  
 cttcaacctt ccagagatgc tccaggggtat cagtgggtcc catggaagac tgtctgaacc 300  
 aagacaagat aagatggaaa gcctcccgaa agacatgggt aggttcttag atgaacaatg 360  
 gggtttatttt attattttat tattattatt tttttttcga gacagtctcg ctctgtcgcc 420  
 caggctggag tgcagcggcg ctatatcagt tcacagcaag ctccgcctcc cgggctca 478

<210> 685  
 <211> 356  
 <212> DNA  
 <213> Homo sapiens

<400> 685  
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 ggacatcaac ttggacattc ctagttttct attgagagaa catattgacg agctcatatg 180  
 tgataaaaact ttagactcta aaaagattgc acacttcaga gctgagaaaag agactttcag 240  
 cgaaaaagat acatattgct atttaaaaaat ggaactctga aaattaagca tctgaagacc 300  
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<210> 686  
 <211> 923  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(923)  
 <223> n = a,t,c or g

<400> 686  
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 atgacccttg tctgtgagca cctgctctct aagctgaggg aatccctggt gtcattccag 180  
 cagtggcgtg ttccatgctg ctgtaggcca ggaacatggt gcagccgaag tggacggcca 240  
 tccagtgatg acttgcccc agtggacagc tgcccagtga tgggacatct ggagtagatg 300  
 gccgtccaac aacagtccat tattgttgtg ctacgtctgg tgtttccagt ggctggaacc 360  
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 gatgcctacc cttctcttct tgcaccaagt cagcaccat actcaggcga ggccctgtgt 480  
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 ttgtgaaggg atacgtgccc ttcttcttgg gctctcctgg tatccactg gtactcagtc 600  
 attctccttc caaactgagg tgtgtgcata catataattt gctggccctt aaaaaccacg 660

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acaaagttag	ctggtggtgt	ggtgcatgcc	tggggccccc	ctactcaggg	gcctgaggcc	840
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ccacctggca	aaagaggga	acc				923

<210> 687  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<400> 687						
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cttaacccca	ttgatgggtga	acgggattct	gggggagtc	gtaactcttc	ccctggagtt	180
tctgagga	gagaaggtca	acttcacac	ttggcttttc	aatgaaacat	ctcttgctt	240
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gcgactgaac	ttcacccagt	cctactcct	gcaactcagc	aacctgaaga	tgggaagacac	360
aggctcttac	agagcccgaga	tatccacaaa	gacctctgca	aagctgtcca	gttacactct	420
gaggatatta	accctttacc	ccattgttgg	gaacgggatt	tgggggaata	aaaacttttt	480
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<210> 688  
 <211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 688						
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gcgccttcaa	gaaactcaag	aatttgaaca	cactgtacct	gtataagaat	gaaatccatg	360
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<210> 689  
 <211> 889  
 <212> DNA  
 <213> Homo sapiens

<400> 689						
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cccctaccag	gagatcgag	gggaacactt	aagaatctgt	cctcagggaat	atacatgctg	300
caccacagaa	atggaagaca	agttaagcca	acaaagcaaa	ctcgaatttg	aaaaccttgt	360
ggaagagaca	agccattttg	tgcgcaccac	ttttgtgtcc	aggcataaga	aatttgacga	420
atttttccga	gagctcctgg	agaatgcaga	aaagtcacta	aatgatatgt	ttgtacggac	480

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&lt;210&gt; 690

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 690

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acag						784

&lt;210&gt; 691

&lt;211&gt; 475

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (475)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 691

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aagacaatct	ccagcatggg	ctgggctcct	ctcctactca	ctctgctcgc	tcactgcaca	120
gggtcctggg	cccagtctgt	gctgactcag	ccgccctcgg	agtcggaggc	ccctggccag	180
tgggtcaaca	tctcctgcac	tgggtctggc	tccaacctcg	gggcaggttt	tgatgtacaa	240
tggtagcagc	taattccagg	aacagccccc	aagctcctca	tctttaataa	caatcgtcag	300
ccctctggag	tccttgaccg	attctctgcc	tccaagtctg	gaacctcagc	ctccctaacc	360
atcaatgatc	tccagcctga	ggatgagtct	gaatattact	gccttgctat	gacagcagcc	420
tcactggtgt	cttcggaact	gggaccaaag	tcactgcct	gagtcagccc	aaggc	475

&lt;210&gt; 692

&lt;211&gt; 1028



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 692

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accggatgga gttccggggtc gacccacgcg tccgggctgc agcagcgcac tctggggcat      60
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gtgaggagga ccgggagctg gctctggagg ctgcggaggc gacgccggag agaacgaagc      180
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tgccacgatg aggactcaca cacggggggc tcccagtgtg tttttcatat atttgctttg      300
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ctgtttgc
1028

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&lt;210&gt; 693

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 693

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aaagaagata ccaacagcct cctgaaactc acgagagtgg acaactccagt gttgaccacc      60
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ccctacaccc cagagatgga gcaactacta ggaataaaac ttggctgcct gtttgccctg      180
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ctttttggag tcgctggcat tgcatgtctg tcttggggct gctggaggat cgacagtgca      540
ggacgaagaa tggggtgggg ctcatatctt cgaactccac agccatggac atttaccctc      600
accctcaaag ggtcccctcc
620

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&lt;210&gt; 694

&lt;211&gt; 851

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(851)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 694

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cgagtgtcca caggaagggga actatcagct cctggcatct gtaaggatgc tgtccatgct 60
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tgacagcagca gcctcttctc ttgagatgct ctcgagggaa ttcgaaacct gtgccttctc 180
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ggaataaagt t 851

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<210> 695
<211> 995
<212> DNA
<213> Homo sapiens

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<400> 695
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aggaagttagc tgcctgtcct ggacctatct ggggattact actactggtg gctgaacaca 180
atggtcttcc cagtcattga taacctcatc atcctcgtgt gcagagcctg cttccccgac 240
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tcccaggaga gctttgtgct cttctcaaag cagcagagca ctgtgcgaaa tgggcgctct 960
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<210> 696
<211> 860
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(860)
<223> n = a,t,c or g

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actgggcaga	aaataagaac	agggagctgt	gagctgcatg	gttcccagag	ctcacacagc	180
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ccaggagggc	cgtgcctgag	atgcatggct	aaaagagctt	tttaggaaag	gttactacag	300
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 <223> n = a,t,c or g

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<210> 700  
 <211> 473  
 <212> DNA  
 <213> Homo sapiens

<400> 700  
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 aaaacctcat atcagggtgga agttaaatgg agcagatgct gacactggta tggagttcct 420  
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 <212> DNA  
 <213> Homo sapiens

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<210> 702  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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aatct						785

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 <211> 1030  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1064  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 707	
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<210> 708  
 <211> 1196  
 <212> DNA  
 <213> Homo sapiens

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gaagaaaata	ggaaagggga
	60
	120
	180
	240
	300
	360

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (490)  
 <223> n = a,t,c or g

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<210> 711  
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 <212> DNA  
 <213> Homo sapiens

<400> 711						
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
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&lt;211&gt; 925

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 722

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&lt;210&gt; 723

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 723

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&lt;211&gt; 575

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 724

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 725

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&lt;211&gt; 861

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 726

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 727

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&lt;210&gt; 728

&lt;211&gt; 872

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 728

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&lt;211&gt; 2563

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <211> 454  
 <212> DNA  
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&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

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&lt;210&gt; 736

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 736

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&lt;210&gt; 737

&lt;211&gt; 228

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 737

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 <212> DNA  
 <213> Homo sapiens

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ctaagagtgg	aactccatta	atgcttccag	gtgcatcaag	gtctactcct	ttgacttttg	1740
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<210> 740  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 740						
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aaaaatattc	cgagcattat	ctggcacagg	gcgtgaggtg	gtgacattga	gacaagtggg	180
cgaggcaagg	gtgggaatag	tgaccaagcc	gtctctccca	ggaacccaga	ttatcgtcct	240
ctctggaggc	gtcatcatca	cggggcagtg	cgcaagaggg	gagggagAAC	cggcacttct	300
tcatatcagt	tcttcttgaa	atgccggtgg	gtggaacact	acatgatcac	tctccaggcg	360
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<210> 741  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<400> 741						
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tgtaagaagg	ctcatgccat	tgacctctt	aattctctcc	tgtttgccg	agctgacaat	180
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gaccacaaa	gccatgatcc	tgcaactcaa	tcccagtgag	aactgcacct	ggacaataga	300
aagaccagaa	aacaaaagca	tcagaattat	cttttgctat	gtccaacttg	gttccgaaag	360

<210> 742  
 <211> 908  
 <212> DNA  
 <213> Homo sapiens

<400> 742						
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aaggtgagaa	ggaaggtcag	gaagaacatg	gcctggccaa	atgtttttca	aagaggggtct	180
ctgctgtccc	agttcagcca	tcatactgtt	gtagtgttcc	tgctcacttt	cttcagttat	240
tcgttgctcc	atgcttcacg	aaaaacattt	agcaatgtca	aagtcagtat	ctctgagcag	300
tggaccccaa	gtgcttttaa	cacgtcagtt	gagctgcctc	tggagatctg	gagcagcaac	360
catttggtcc	ccagtgcaga	gaaagcgact	cttttctctg	gcacactgga	taccattttc	420
ctcttctcct	atgctgtggg	cctattcatc	agtggcatcg	ttggggatcg	gttgaatttg	480
cgatgggttc	tgtcttttgg	catgtgctct	tctgcattag	tggtgtttgt	ctttgggtcg	540
ctcacagaat	ggctgcgttt	ttacaacaaa	tggctgtact	gctgcctgtg	gattgtgaac	600
ggcctgctgc	agtccactgg	ttggccctgt	gtggttgctg	ttatgggcaa	ctgggttggg	660
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ccattaat						908

<210> 743  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<400> 743						
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tcttgcgctg	tgtcccatc	tctaactact	tatacttcta	ttggtacaga	caaactcttg	180
ggcagaaagt	cgagtttctg	gtttcccttt	ataataatga	aatctcagag	aagtctgaaa	240
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ggtccacaaa	gctggaggac	tcagccatgt	acttctgtgc	cagcagtga	aggggggtctg	360
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acgtgttccc	accc					434

<210> 744  
 <211> 786  
 <212> DNA  
 <213> Homo sapiens

<400> 744						
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tgtagccaca	gctgaggccc	tggaaccagct	ctctccacac	cgcagtctcc	gagttgggac	180
tctaaggagt	ctaggaattt	tcattcaaac	ttggccttac	aggctactca	tcagaaaaat	240
acttttttca	aggtaacca	atagaacata	ctttattcaa	cagtttggtta	gtttgctttt	300
taaatattta	gccacatggg	atgtaggctt	ccatgtacac	tcttgccctg	gccccgaaa	360
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aacctctcag	tctacctcct	cttttctgct	tctgaatccc	tacctttaaa	gtcagaacag	480
gccaggcccg	gtggctcacg	cctgtaatcc	cagcactttg	ggaggctgag	gtgggtggat	540
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aaaatacaaa	aattagccag	gtgtggtggc	gggcacctgt	aatcccagct	actcaggagg	660
ctgaggcagg	agaatcactt	gaaccagga	ggcagagttt	gcagtcagcc	aagatcacgc	720
cactgtactc	cagcctggat	gacacagcga	gactccgtct	caaaataaat	acaaaaaaaa	780
aaaagg						786

<210> 745  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<400> 745						
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gcggggacat	cgtgatgacc	cactctccag	actccctggc	tgtgtctctg	ggcgagacgg	120
ccaccatcga	ctgcaggctc	agccagagtg	tcctctacca	cgccaacaat	aaaaactact	180

taacttggt	ccagcagaga	ccacgacagt	ctcctaaagt	gctcattttc	tgggcatcta	240
cccggaac	cgggtgcct	gaccgattca	ctggcagcgg	gtctgggaca	gattattcgc	300
tcaccataag	cagcctgcag	gctgaagatg	tggccactta	ttactgtcaa	caatattatg	360
attctccgat	caccttcg					379

<210> 746  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

<400> 746						
cccgtagacg	tcttacctgc	ctacgccaag	cttggcacga	ggggctctctg	cagtgaagtgg	60
ggagcctaca	taaaagagag	taaagagggg	caaaaaccca	gacgagaatg	caggcgacgt	120
ccaaccttct	caacctcctg	ctgctgtctt	tgtttgccgg	attaaatcct	tccaagactc	180
acattaatcc	taaagaagg	tggcaggtgt	acagctcagc	tcaggatcct	gatgggcggg	240
gcatttgcac	agttgttgc	ccagaacaaa	acctgtgttc	ccgggatgcc	aaaagcaggc	300
aacttcgcca	actactggaa	aagggtcaga	acatgtccca	gtctattgaa	gtcttaaaact	360
tgagaactca	gagagatttc	caatatgttt	taaaaatgga	aaccctaaatg	aaagggtcga	420
aggcaaaatt	tcggcagatt					440

<210> 747  
 <211> 942  
 <212> DNA  
 <213> Homo sapiens

<400> 747						
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tggaagaaa	aataaccata	tatacaaaat	catgcataag	aaaaaaataa	tataaggatg	180
tacataccaa	atattaataa	taatggctat	ctctggatag	tggaatcaga	gggattatgt	240
aattttcctg	ataaattttc	ctgtcctcca	aacagcatcc	gcttcatact	attatttctt	300
ggttgtaatt	agtttgatat	aattctcttc	agaaaggctc	tgtttacta	tatatacctc	360
aaagcatact	tttgatgcag	cttctgcaat	tcccatctaa	aaagtagata	acacttgctc	420
ttatattctg	gcatatgaag	actatttgta	attaacacac	tataaaatat	gtcaaagcag	480
gccaggcatg	gtggctcaca	cctgtaattc	caaaaccttg	gcaggaagat	cgattgaggc	540
caggagctca	agacgagcct	gggcaacata	gaaagaccct	atctttacaa	aaaaaacttt	600
aaaaattagc	cagggtgtaat	agcacatgcc	tgtctgtaat	cccagctact	tggcaggctg	660
gaagggtcaag	gctgcagtga	gccatgatca	tgccactgca	ctccagccta	ggtgacagag	720
caagaactca	tctctaaaaa	aaaattttta	aataaagcaa	aatatgccac	agcatagatc	780
tgattgtaga	aaattattat	atggagaact	gaaaaatctc	ctaatacaga	caaaaatttt	840
aaatagagga	aaaaaatact	atctatcatt	agttcaagtt	tccattaaga	gtagagtgtg	900
aagtagctcc	aagttcagag	ctggagaatt	ttgcactctc	cc		942

<210> 748  
 <211> 1050  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (1050)

<223> n = a,t,c or g

<400> 748

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actgggaaga	aatacacaag	aagtggttgc	attaggggtga	gaaggagtat	tcatgttttt	240
ctcatccgtc	tttttcaaac	cttttghtaat	gggtgggtttt	attaatttta	taatggaaaa	300
tgttaattta	aaagcaagtt	atttacagtt	tagtaagctc	atggcaggga	aaggctgggc	360
tctgtttatt	gctcttactt	tttcccaacg	cctactccca	tgcctggcaa	ttatagagat	420
aataaatgtg	ggtgtggaat	gagtgcccac	tgggaaacct	ctcagaggac	tttgaccag	480
gaacataattt	gcacagggtt	tccctcagct	ggagaagggt	tctctgggag	agcaccagcc	540
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tcccagcaag	gtgtaggggc	ccttctggcc	atttgacatc	accagggcag	ttagtgtctga	660
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ctcaactctg	tcgtctaggc	tggagtgcag	tggtttgatc	ttgggtgnatt	agtttctttt	960
tttgtgggtg	tttgttttaa	gtttttgttt	tgggttaaat	taatctggtc	ttgggaatcc	1020
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<210> 749

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(390)

<223> n = a,t,c or g

<400> 749

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cacagaatcc	gtggcctcat	atgaactgtt	tcagccacct	tcagtgtccg	tgtccccagg	120
acagacagcc	actttcacct	gctctggaga	tgacttgggg	aacaagtata	tttgtttgta	180
tctgcagaag	ccaggccagc	ccccgtgggt	actcatgtat	caagataaca	agcggccctc	240
agggatccct	gagcgattct	ctggctccaa	ttctgggagc	acagccaccc	tgaccatcag	300
cgggaccag	gctacggatg	aggctctata	tttctgtcag	gcgtgggaca	cgaatggagc	360
tgtgttcgga	ggaggcacc	agttgaccgn				390

<210> 750

<211> 441

<212> DNA

<213> Homo sapiens

<400> 750

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tcagtgtgtc	catctgtaaa	aaggagataa	aaattattta	cctgcctgaa	catgagggtg	180
aggaccatcc	tgtacagta	ttgctttctc	ttgattacat	gtttacttac	tgctcttgaa	240
gctgtgccta	ttgacataga	caagacaaaa	gtacaaaata	ttcaccctgt	ggaaagtgcg	300



aagatagaac	caccagatac	tggactttat	tatgatgaaa	tcgtttttaga	agagcttggt	360
gggccatgcc	tatatcttga	aggggaatcca	acttagcttt	aattaacatt	cttaaccttc	420
cgcacgcgtg	ggtcgacccg	g				441

<210> 751  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 751						
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aaccagggcc	attcaccagg	agcatgcggc	tccctgatgt	ccagctctgg	ctgggtgctgc	120
tgtgggcact	ggcgcgagca	caggggacag	ggctctgtgtg	tccctcctgt	gggggctcca	180
aactggcacc	ccaagcagaa	cgagctctgg	tgctggagct	agccaagcag	caaactcctgg	240
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tgtccactcc	tcggtccac	cacctgtac				449

<210> 752  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 752						
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ctaggggttg	gcaccggccc	cgagaggagg	atgcgggtcc	ggatagggct	gacgctgctg	120
ctgtgtgcgg	tgctgctgag	cttggcctcg	gcgtcctcgg	atgaagaagg	cagccaggat	180
gaatccttag	attccaagac	tactttgaca	tcagatgagt	cagtaaagga	ccatactact	240
gcaggcagag	tagttgctgg	tcaaataatt	cttgattcag	aagaatctga	attagaatcc	300
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atcagctttc	tagagtctcc	aaatccagaa	aacaaggact	atgaagagcc	aaagaaagta	420
cggaaaccag	gtagtctgga	cattttcctt	gctttttgat	ttatttaggg	gacaactgaa	480
aattttaagc	taatgaataa	agaggctgaa	gaagaaaaaa	aaaa		524

<210> 753  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (474)  
 <223> n = a, t, c or g

<400> 753						
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cccctgggcc	tggtccaga	cacctttgac	gatacctatg	tgggttgtgc	agaggagatg	180
gaggagaagg	cagccccct	gctaaaggag	gaaatggccc	accatgccct	gctgcgggaa	240

tcctgggagg	cagcccagga	gacctgggag	gacaagcgtc	gagggcttac	cttgccccct	300
ggcttcaaag	cccagaatgg	aatagccatt	atgggtctaca	ccaactcatc	gaacaccttg	360
tactgggagt	tgaatcangc	cgtgcggacg	ggcggaggct	cccgggagct	ctacatgagg	420
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<210> 754  
 <211> 1222  
 <212> DNA  
 <213> Homo sapiens

<400> 754						
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gccggtgccc	cccatgttgg	aacctgagtt	ggagattatc	tcctaagcag	atacctgctt	120
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cacctgcgg	cctgactatc	gggaccgtat	cgcactcttt	gaaaatggct	ccctgcttct	660
cagcgacctg	cagctggccg	atgagggcac	ctatgaggtc	gagatctcca	tcaccgacga	720
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attttcctcc	ttgggacctt	ggtgaagacc	tggccaacaa	gggaaaaccc	cgtctttatt	1140
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<210> 755  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (667)  
 <223> n = a,t,c or g

<400> 755						
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gtgctactag	aacaagagaa	aacgtttttc	actcttttag	tattactagg	ctatttgtca	240
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aactgtgttc	cctgcaacca	gtgtgggcca	ggcatggagt	tgtctaagga	atgtggcttc	360
ggctatgggg	aggatgcaca	gtgtgtgacg	tgcgggctgc	acagggtcaa	ggaggactgg	420
ggcttccaga	aattgcaagc	ctgtctggac	tgcgcagtgg	tgaaccgctt	tcagaaggca	480
aattgttcag	ccaccagtga	tgccatctgc	ggggactgct	tgccaggatt	ttataggaag	540

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acgaaacttg tgggctttca agacatggag tgggtggtngg cccttggttg gagaaccccc 600
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ggggaaa 667

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<210> 756
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(411)
<223> n = a,t,c or g

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&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 759

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 761

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 766

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 769

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&lt;210&gt; 770

&lt;211&gt; 1072

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 770

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&lt;211&gt; 1271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 771

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&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 772

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&lt;211&gt; 980

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 773

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&lt;210&gt; 782

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 782

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agacgctagt	ctagggggca	ccacaagcag	aaaggggctg	tttcaaggag	tcgtccgccc	660
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&lt;210&gt; 783

&lt;211&gt; 769

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(769)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 783

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769

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 <212> DNA  
 <213> Homo sapiens

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 gccgcctccc cgcgggttcc gttggctgtg gcgcagctg acgcttgtgg cggcgtggc 240  
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 cggccgacgg ctacgggttac ccccgcgccc ggacatccct ctcggtgttc ccgctggcgg 420  
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 gaactggaac actgattccc ttaagtcttc tgggcatgtt gccactaagc taggtgtggt 900  
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 aagtagatgt actaacaca 979

<210> 785  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<400> 785  
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 gcatggcgtc cctgctcctc caggcgctgc ccagcccctt gtcagccagg gctgaacccc 180  
 cgcaggataa ggaagcctgt gtgggtacca acaatcaaag ctacatctgt gacacaggac 240  
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 acaattactc agcgtgcca ttttatctca ggtttttgcc aaactattta ctacctcctt 480  
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 agcagcaacg 550

<210> 786  
 <211> 932  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (932)

<223> n = a,t,c or g

<400> 786

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<210> 787

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(514)

<223> n = a,t,c or g

<400> 787

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ctgttcccca	tcctcccagc	ccttcctgct	gtacctgtgg	ggagctgatc	tcctcagtc	180
ccctgctttt	ccccggtctg	ccatcaccac	cccaccacca	tgcacccct	tcctggctac	240
tggtcctggt	actgtctact	cctgctattc	tccttgggag	tccaggggtc	cctgggggct	300
ccagcgctg	ccccagagca	agtcctctg	tcttaccag	gtgagccagg	ctccatgact	360
gtaacttgga	ccacatgggt	cccaaccgc	tctgaagtgc	aattegggtt	gcagcgctcg	420
gggcccctgc	ccctccgcgc	ccagggcacc	ttcgtccct	ttgtggacgg	nggcattctc	480
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<210> 788

<211> 469

<212> DNA

<213> Homo sapiens

<400> 788

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gctctagaga	ttatttctct	ttattcagaa	gcatacagtt	gtttgctgat	tgcaagaaga	180
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tcaactgtga	gaaggtttca	gtctacagac	caaatcagct	gaaaccacct	tggtctaatt	360
tttatcacct	caattttocaa	aataattttt	taaataattct	gtatccaaat	acattcttga	420
atttttcaca	tgcagtctcc	ctgcactctgg	ggaataataa	actgcagat		469

<210> 789  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 789						
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cccagtgaga	gcggctttcc	aggacggtgc	gatgtgctgc	gcagcgaaga	ggcaggaggc	180
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tgcaccggcc	atgcgcccgg	ccttggcggg	gggectgggt	ttcgcaggct	gctgcagtaa	300
cgtgatcttc	ctagagctcc	tggcccggaa	gcaccagga	tgtgggaaca	ttgtgacatt	360
tgcacaattt	ttatttattg	ctgtggaagg	cttcctcttt	gaagctgatt	tgggaaggaa	420
gccaccagct	atcccaataa	ggtactatgc	cataatgggt	accatgttct	tcaccgtgag	480
cgtggtgaac	aactatgccc	tgaatctcaa	cattgccatg	cccct		525

<210> 790  
 <211> 377  
 <212> DNA  
 <213> Homo sapiens

<400> 790						
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agtgtgggtc	ctaattccaac	aactgacgcc	cttatacaaa	ggagaaaacct	ggacacagac	180
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<210> 791  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

<400> 791						
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aagctgattt	tactactagg	aatagtcttt	tttgaacgag	gtaaatctgc	aactctttcg	180
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aagatggctg	gagccttcca	atttggccac	tttgtggggc	ccatatgtct	tccagagctg	600

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637

<210> 792  
 <211> 881  
 <212> DNA  
 <213> Homo sapiens

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 cagttaagtc tatggcagag tcagattctt ttatgtgtct aactgttgcg aagtatagac 180  
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<210> 793  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<400> 793  
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 gccaccatcc tcttctgggc agcggcagca tgggctaaat caggcaagcc ttcgggagag 180  
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 aatggcaagt tttccactga gttccagagg atgaagaccc tccaagtga ggaccaagct 540  
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 gagctaagct caggttttag ga 622

<210> 794  
 <211> 1177  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
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&lt;210&gt; 795

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 795

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gatctaggct	ctctgtttcc	tcgagtcact	cccagattag	tgggtgtctag	ctcagcactg	180
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cagcctcaat	gacccctct	tcggttggct	cagtgaaccg	cagttcctca	gctcccagcc	540
ccggtcaggc	gccgggctct	cctcaagggc	tgtggtgctg	gcccgggtgc	aggccctga	599

&lt;210&gt; 796

&lt;211&gt; 709

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 796

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cgagcaagaa	aatgacgtga	accgggaag	tggagcttgc	agtgagccct	aatcgcacca	660

ctgcacttca gcctgggcca cagagggaga ctccatttca aaaaaaaaaa 709

<210> 797  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

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 tgaaaaactt tttgagcgtt atggtgaaaa tggaagatta tccttttttg gtttggagaa 300  
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<210> 798  
 <211> 480  
 <212> DNA  
 <213> Homo sapiens

<400> 798  
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 tcaatatgat tgtctccctg ctgggggttag tggccacagt caccctcatc ccggccttcc 180  
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<210> 799  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

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&lt;211&gt; 404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 804

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&lt;211&gt; 344

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 805

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&lt;211&gt; 1208

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 806

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&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; n = a,t,c or g

&lt;400&gt; 807

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&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 808

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ggctgggtgt	ggtggctcac	ccctgtaate	ccagcacttt	tgggaggcca	aggcaggcag	840
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<210> 816  
<211> 1892  
<212> DNA  
<213> Homo sapiens

<400> 816

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ttgggatcca	tcttctgagg	gtgaagctcg	agtgagcggg	gcaggcagct	gtcaacaggg	1860
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<210> 817  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<400> 817						
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cagtagtctc	tgaggagccg	ctcgaccttc	tcccgacctt	ggatctgagg	caggagatgc	240
ctccccgcg	ggtgttcaag	agctttctga	gcctgctctt	ccaggggctg	agcgtgttgt	300
tatccctggc	aggagacgtg	ctggtcagca	tgtacaggga	ggtctgttcc	atccgcttcc	360
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acaaggaggc	gtcccttgtt	tgcggtgcc	cctccctgag	agaggtgcca	agctccgccg	600
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tatccgaccc	ctcatcatat	ctcgcc				687

<210> 818  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<400> 818						
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acagtcccca	atgtgtggag	aatttctctt	catcagcata	tatagctgtg	atatgtaaag	180
gagcatcaaa	ggtctcataa	gtttcatcgt	cgttaaaata	tacaaaaagg	gctgtcaatg	240
cttgagacat	cagaattaac	atacactctc	tcttcgtaac	agtccacggt	tgctacctat	300
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gtgccctgta	tt					372

<210> 819  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (445)  
 <223> n = a,t,c or g

<400> 819						
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actgagttct	agtttgaagc	tgtttaccct	cgcagctctc	tgactggcac	ccttgccctgc	120
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gtggcctctg	ctgagttctg	tgtcctctgt	gctgctgctc	cagcctgtaa	cctgtgccta	240
caccacgcca	ggccccccca	gagccctcac	cacgtggggc	ggccccagag	cccacaccat	300
gccgggcacc	tacgtctcct	cgaccacact	cagtagtccc	agcacccaag	gcctgcaaga	360
gcaggcacgg	gccctgatgc	gggacttccc	gctcgtggac	ggccacaacg	acctgcccct	420
ggttctaagg	caggtttacc	acaat				445

&lt;210&gt; 820

&lt;211&gt; 425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (425)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 820

gtcctaatta	gaattatgct	gggcctaacc	atgaccaata	cgtggccata	ggtgggtaccg	60
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attggaattt	cactcttcag	ggctgcagtt	cctcacacag	gcaggaagaa	ccaagagcag	300
tggcacgtgg	tgtccaggaa	gaagcagaag	atcattaaga	tgctcctgat	tgtggccctg	360
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ccgan						425

&lt;210&gt; 821

&lt;211&gt; 706

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 821

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gaaatcagca	tactggaaag	ccctcaagg	gttcaagctg	cctgtggagt	tctgtctgct	420
cctcacagtc	cccgtcgtgg	accggacaa	ggatgaccag	aactggaaac	ggcccccaa	480
ctgtctgcat	ctggttatca	gccccctgg	tgtggtcctg	accctgcagt	cggggaccta	540
tgggtgtctat	gagataggcg	gcctcgttcc	cgtctgggtc	gtgggtggtga	tgcaggcac	600
agccttggct	tcagtgcact	tttttgccac	atctgacagc	cagcccccca	ggcttcactg	660
gctctttgct	ttcctgggct	ttctgaccag	cgcctgtgg	atcaac		706

&lt;210&gt; 822

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



```

<400> 822
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tgggcctggc caacgttgct gactcctata aaatgctcat ccttgtaga ttcctttttt 180
tcgctactg acgcgctggg cttggagtcc cttctgggaa ctgccagcct gtggccactg 240
ctcctgagcc tcacagagct acctgccctc ctgcaaagt gactgctgac cttctgttcc 300
gaaagacccc gctacctcta cgtaatacat aatttcgagg gacctgccag aattagt 357

```

```

<210> 823
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<400> 823
cgggtcgacc cagcggtccg atccgagcta atcagtcaat acaagtcaca tgggtttatg 60
gatatgctcc atgacaagtg gtacaggggtg gttccctgtg gcaagagaag ttttgctgtc 120
acggagactt tgcaaatggg catcaaaccac ttctctgggc tctttgtgct gctgtgcatt 180
ggatttggtc tgtccatttt gaccaccatt ggtgagcaca tagtatacag gctgctgcta 240
ccacgaatca aaaacaaatc caagctgcaa tactgggtcc acaccagcca gagattacac 300
agagcaataa atacatcatt tatagaggaa aagcagcagc atttcaagac caaacgtgtg 360
gaaaagaggt ctaatgtggg acccgcgtcag cttaccgtat gg 402

```

```

<210> 824
<211> 348
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(348)
<223> n = a,t,c or g

```

```

<400> 824
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cctgtgtgga tgtgatatct agcagcatca ccggttactt acgttcgtat gtttttgggtg 180
tcaattatat gtgttactct cttctttcct attgtagctc tcttcgatct ttacgccact 240
ctcgtcact gtgtgtacgc gttttctact gactctcttc tgectgtgt gatgcttact 300
gcgcttcctc gtagtctctt cttttcgtcg tcgttgattt tatcatcg 348

```

```

<210> 825
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<400> 825
ggcacgagcc ggtgggtcta cagcggaagg gagggagcga aggtaggagg cagggcttgc 60
ctcactggcc accctcccaa ccccaagagc ccagcccat ggtccccgcc gccggcgcg 120

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tgctgtgggt	cctgctgctg	aatctgggtc	cccgggcggc	gggggccc	ggcctgacct	180
agactccgac	cgaaatgcag	cggtcatgt	tacgctttg	ctgctctgtc	atctgttgct	240
attgtatctc	agttcgtact	ggtcggtccc	gggaaactgg	atagctctga	gcagtcgatt	300
atgtactcgg	catctctttg	agttgatgga	gtatcgatgt	gtggttg		347

<210> 826  
 <211> 649  
 <212> DNA  
 <213> Homo sapiens

<400> 826						
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gcaaagtaga	tgttactaaa	gattttgaag	ggatgtgtag	tctttcatca	cctaccttgc	120
agcactcaag	tttacaacc	ctcattgggc	atgtgggggt	tcctgagtc	cctgtgggaa	180
gtggtttttt	gccatacacc	ttgtttcaga	gctcagcctc	agttagacag	ggcaggctcc	240
agtttctctc	tctaccctc	tccccacagc	acctctaatt	aaccagccct	tttcttacca	300
ctgagaaatt	gaactctact	aaataattac	agccttgtgc	cacataatga	cgttttggtt	360
aacaggggac	cgtgtgtata	atggtggtct	cataagaata	taataccatg	ggtttactat	420
acttttctat	atttagaaat	gttttagattt	aagttagata	tggttagatt	taaaatacgt	480
aacacaggct	ggaccggta	gctcatgcct	ggaatcccag	cactttggga	agccgagttg	540
ggtggatcac	ctgagggcag	gagtttgga	ccaccctggc	caacttgggg	gaccccatc	600
ttctaaaaaa	cacacattac	ctgggggggg	gcgagccctt	tatcctacc		649

<210> 827  
 <211> 791  
 <212> DNA  
 <213> Homo sapiens

<400> 827						
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tccttacagg	aaacattctt	ggcaaataca	gctccgagat	caggcctgcc	ttcttctctc	180
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cgctaaccgg	ctgcaccgcc	aacatggtgc	aagaggaaca	aagaaagggg	ctcctgcagc	300
gtccggctga	cctggccctt	gtcatatata	tcctccttgc	tggcttcttc	actctgttcc	360
ggggcctggg	ggtgcttgat	tgccccacag	atgcctgctt	tgtctatata	taccagtatg	420
agccatacct	gcgggaccct	gtggcctacc	ctaaggtgca	gatgctgatg	tacatgtttt	480
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gggcttccat	gcacctgcgc	acacccttca	cctaccgtgt	gcctgaggac	acctggggct	660
gcttcttcgt	gtgcaatctg	ctgtatgcgc	tgggccccca	cctgctggcc	taccgttgcc	720
ttcagtggcc	cgcattcttc	caccagccac	caccctccga	ccccctagcc	ctccacaaga	780
agcagcattg	a					791

<210> 828  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 828

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aaaggacat ttgcagaatt cagaaaaatt cttcagtttc ttttggctta ttccatgtcc      60
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ttttgtgctt ttgtagtagt taatggtgga attgttattg gcgatcgag tagtcatgaa     180
gcctgtcttc attttcctca actattctac tttttttcat ttactctctt tttttccttt     240
cctcatctcc tgtctcctag caaaattaag acttttcttt ccttagtttg gaaacgtaga     300
attctgtttt ttgtggttac cttagtctct gtgttttttag tttggaat                 348

```

```

<210> 829
<211> 638
<212> DNA
<213> Homo sapiens

```

```

<400> 829
cccacgcgtc cgccccaagc tgggtcatgga actgatgcc atcggtctgc gggggctgat      60
gatcgagtg atgctggcgg cgctcatgtc gtcgctgacc tccatcttca acagcagcag     120
caccctcttc actatggaca tctggaggcg gctgcgtccc cgctccggcg agcgggagct     180
cctgtgggtg ggacggctgg tcatagtggc actcatcggc gtgagtgtgg cctggatccc     240
cgtctgcag gactccaaca gcgggcaact cttcatctac atgcagtcag tgaccagctc     300
cctggcccca ccagtgaact cagtctttgt cctgggcgtc ttctggcgac gtgccaacga     360
gcagggggcc ttctggggcc tgatagcagg gctggtggtg ggggccacga ggctggtcct     420
ggaattcctg aaccagccc caccgtgcgg agagccagac acgcggccag ccgtcctggg     480
gagcatccac tacctgcact tcgctgtcgc cctctttgca ctcagtgggt ctggtgtggt     540
ggctggaagc ctgctgaccc cacccccaca gagtgtccag attgagaacc ttacctggtg     600
gacctgggt caggatgtgc ccttggaac taaagcag                                     638

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```

<210> 830
<211> 428
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (428)
<223> n = a,t,c or g

```

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<400> 830
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ttcatgctgg ccaccgtggt gctgtacttc agccacctca aggagtatgt ggcttccatg     120
gtattctccc tggccttggg ctggaccaac atgctctact acaccgcgg tttccagcag     180
atgggcatct atgccgtcat gatagagaag atgatcctga gagacctgtg ccgtttcatg     240
tttgtctaca tcgtcttctt gttcgggttt tccacagcgg tggtgacgct gattgaagac     300
gggaagaatg actccctgcc gtctgagtc acgtcgaca ggtggcgggg tttttctnan     360
acccccctct ntcttctaca taaactgtac tccacctgcc tggaactgtc caactccacc     420
atngattg                                     428

```

```

<210> 831
<211> 892
<212> DNA
<213> Homo sapiens

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&lt;400&gt; 831

```

cccggaagct gggaaatgac ttattaacct tcatggcctc tggctcttctg aggaagcagt      60
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tcacatgtga gccacaggtg tcatttttaa atttctagta gcaacagaaa cgaggaataa      180
acagatgggtg tttgagtcac tgaatttttg gaaggacttc aaatgtcaag cattattctc      240
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ggccatcacc atcagcccta gcatcttgtg gaatcatgct gctgtccagt atgtacacgg      360
tcattctctt gttcaggcat gagaggtgat accagagcct tcgcaacacc agccgctccc      420
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caaggccaag tcggccacac caggggctct ctggggagcc tggaggaagg ttgactcttt      660
agtctgtgc atctcagcca ggagttcatc catcttgaag gtctgagggg cacggggata      720
caacgggcca actggggccc ttcatagaat acccccacc tattcttttc cgaacctctc      780
tccaaggctc tgaagactgc ctccgacgtc tgtctctcgc gcccgcgcca cccgtaaacc      840
actacgactc ttcactcatt cctgcaagtc ttcactccct ctactccgat gc      892

```

&lt;210&gt; 832

&lt;211&gt; 312

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 832

```

catagaccca tgagatgtac ttgaacggcc tgagaagatt cagtcatgca ttgttgatgg      60
gcgatatgac tgccagactt atgcggtctt tgctggctgc acaacttaca ttgtatatata      120
gggtggcgca tctaataaac gttgctcaac gcataagggg aaatcgctcc attaagaatg      180
agagactact tgcattgctt ggagataatg aaaagatgaa tttgtcagat gtggaactta      240
tcccgttgc tttagaacct caagtgaaaa ttagaggaat aattccggaa acagctacac      300
tgtttaaaag tg      312

```

&lt;210&gt; 833

&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 833

```

gccataattt ctttcttcat tggatttggg ctaagatttg gagcaaaatg gaactttgca      60
aatgcatatg ataatcatgt ttttgtggct ggaagattaa tttactgtct taacataata      120
ttttggtatg tgcgtttgct agattttcta gctgtaaata aacaggcagg accttatgta      180
atgatgattg gaaaaatggg ggccaatatg ttctacattg tagtgattat ggctcttgta      240
ttacttagtt ttggtgttcc cagaaaggca atactttatc ctcatgaagc accatcttgg      300
actcttgcta aagatatagt ttttcaccca tactggatga tttttggtga agtttatgca      360
tacgaaattg atgtgtgtgc aaatgattct gttatccctc aaatctgtgg tccgtcgacg      420
cggccc      426

```

&lt;210&gt; 834

&lt;211&gt; 445

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 834
aagcgcgcta gtatgcagctc tggcagaagc aacggtggct tcgagggatg gcggcggtctg      60
caacaggacc tgcagcatcc cagaggaact gactaagact ttggaacaga aaccagatga      120
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<210> 839

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1) ... (498)

<223> n = a,t,c or g

&lt;400&gt; 839

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ctcatttttt	cctgctacag	gttcctcagt	gggtgtctga	atattgtctt	tccatccact	180
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tgcgggtggc	ggatgaaatg	gatgttaaca	ttgggtcatga	ggttggctac	gtgatccctt	300
tcgagaactg	ctgtaccaac	gaaacaatcc	tgaggttggg	ttgtgggggt	cagtcgcgtc	360
cctgctgatg	attcttggct	taggttctac	aattctgaag	gagcattatt	ctggcattct	420
acctgttaag	catctatgct	gtgcagtagc	aactggtctc	tgtcatcagc	cagccagcaa	480
cagttgcttt	cccacact					498

&lt;210&gt; 840

&lt;211&gt; 858

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 840

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aatgagagtt	tgcaagaagat	gaaaggggag	tcttgcatte	agcaatttgc	cctgtattta	120
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ttgccacatg	aaaactttct	tcatgaaacc	cacaggggtg	aagttctctc	ctgttgccct	240
gagtgcacac	tcccaggccc	tctgtatgag	tgacacttca	gtctgccatg	gaacctggcc	300
ctgctctggc	ctggctcctg	ctcctgagcc	tgctggcgga	ttgtctgaaa	gctgctcagt	360
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ctggctgcag	agactccgag	catgaaggcc	acaaggtctg	ggcaacagag	caagtgacca	660
gtactacata	gccagctgcc	ttctcttcag	acatctgcca	gtactcatga	gcagattctt	720
actcccccg	gaaggctgtc	ttttgattgt	ctttatgctc	tgtgaaaaga	cgcttccttt	780
cctgtttact	ctaaaagaat	acacatttat	accagagcat	aggacaactg	atataaattg	840
tgtaaacaca	catgaaga					858

&lt;210&gt; 841

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (459)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 841

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ggaaatgtga	cttggaagat	caaattgagg	aatgcaatac	acctttcaag	cttgactgta	120
actactctag	caaacctcat	accctttact	ctgagccata	tatgttttct	gctgttaate	180
tgttctcttt	gtaaacatct	caagaagatg	cggctccata	gcaaaggatc	tcaagatccc	240
agcaccaagg	tccatataaa	agctttgcaa	actgtgacct	ccttctctcat	gttattttgcc	300
atttactttc	tgtgtataat	cacatcaact	tggaaatctta	ggacacagca	gagcaaaactt	360
gtactcctgc	tttgccaaac	tgttgcaatc	atgtatcctt	cattccactc	attcatcctg	420
attatgggaa	gtaggaagct	aaaacagacc	tttcttttca			459

<210> 842  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 842  
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 ttctatgtcc ctgtggctat gtttccagtg tcctctgggt gtttccaaga gcaacaagaa 120  
 acgaataaat ctctgttgaa gagataccat ttgacatttt agagatggct gcatgcaaac 180  
 tcttaaaaca tttgaatgga ttttccctct tgttgcccag gctggagtgc aatgggtgtga 240  
 tctcggttca ctgcaacccc ctgcctcccg gggtcaagcg attctcctgc cccagcctcc 300  
 tgagtagctg ggattagagg catgtgccac catgccagc taattttgtg ttttttagtag 360  
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 ctgc 424

<210> 843  
 <211> 697  
 <212> DNA  
 <213> Homo sapiens

<400> 843  
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 catgaaaacc aaatgtaaac caaatattac cttcttcaac accatcatct gtttcttcct 120  
 gacttttctc tctgcatct atatcgattc gctcctctgt actgttccga agaaccacgc 180  
 acaggcggta cagctgaaca gggaccatac aaaagtgcac tagtaatagg caaatgtttg 240  
 caataatata atagaatggg acctttgttt atcgtctggg gtttttaaaa aatcaaacca 300  
 tacaggagaa tatagatcac aaagaaaagg cctcctacca cactcactca tcaaaacaca 360  
 ctaatcattt taaatttttt tctgttttta attctttctg ggtgctatct agaacttcaa 420  
 atgatatact taaaaatacc tacttctgga tttgtaattt cagcaaagtt gaagatttag 480  
 ctaacctaca ctatacccca gcttactca ttgtccttaa catccaacag ttattagcca 540  
 catcatgatt tccttcagtt tatctaattg ttgcttttat aactttcaaa ctatcttctt 600  
 aaaatctatt tctggaacca tcacatttgg ctgggatcta agtaccaatg gaattccaat 660  
 tgcaattaag aaccttaac ccacttcctt tttctta 697

<210> 844  
 <211> 698  
 <212> DNA  
 <213> Homo sapiens

<400> 844  
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 gtcattggtg tagttagggg caccggtgta gttagggta tgggtgtagt tagggctgtg 120  
 gtggttaggg tcattggtgg agttaggatc accgctgtac ttagggtcat ggtggtagtt 180  
 aggatcatgg ctgtaattag ggtcatgggt gtagttaggg tcacggctat agttggggtc 240  
 atggtggtaa tttagggcac agcgatagtt agcatcatgg tggtagttag ggtcatgggtg 300  
 gtagttaggg tcattggtgg agctaggccc atgggtggtag ttagggtcat ggctgtagtt 360  
 agagtcattg cggatagtgc gctcagggtc atatgttcgt cgtcgtgaa cgttacgttt 420  
 tcgcttgaat agtcaagccc tgcctcgtct tttctttttt tcaactccaca aagaatcgtc 480  
 cttactcgaa tgcttttttc ccgtgcttaa ggtggcacac catccctggc caacatctct 540

```

tttggttatg taactcttag tcgtccttgc atacacctcc cccccgcgg ggtgttacct 600
cccgagttgc gagagcaatt ctaaactagc cgtttttagcg taccaccttc actgaacctg 660
ttttcccgac aacctctctt cacggcctgg ggagggcg 698

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```

<210> 845
<211> 627
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (627)
<223> n = a,t,c or g

```

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<400> 845
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gtggtggaga aggcacgcac agccaccatg ctatgtgccg caggcggaaa tccagaccct 180
gagatttctt ggttcaagga cttccttctt gtagacctg ccacgagcaa cggccgcctc 240
aagcagctgc gttcaggtga gcagagggca ggggtcaaag ggccatgcag acctcagaac 300
aagcgtcttg tcagatccca gcacagccta ctcccttggg cctgggcacc tccagggctg 360
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gagagctcgt ggttggctgt gccgttacct tcttcggatt gtcagactcc agactttggg 480
ccagttctgc ccctcccagc acatgtgatg tgccagtggt gtggactctt caagggagct 540
ctatggatgt taacctctct ccttccctgt ancctggcct gagacaggag aatggatgat 600
gcctttaatc agagctggtt tgactta 627

```

```

<210> 846
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<400> 846
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gatgactgtg ccgggggtcc ccattgcctt aatggtggtc agtgcattga taggattgga 120
ggctacagtt gtcgctgctt gcctggcttt gctggggagc gttgtgaggg agacatcaac 180
gagtgcctct ccaaccctg cagctctgag ggcagcctgg actgtatata gctcaccaat 240
gactacctgt gtgtttgccg tagtgccctt actggccggc actgtgaaac cttcgtogat 300
gtgtgtcccc agatgccctg cctgaatgga gggacttgtg ctgtggccag taacatgcct 360
gatggtttca tttgccgttg tccccggga ttttcgggg caaggtgccg gagcagctgt 420
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ttctgccccg gtccccggga ctgagagtcg ggctgtgccg gtageccctg ccagcacggg 540
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tcgggtagcc gctgtgaact ctcaactcac ccacc 635

```

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<210> 847
<211> 1100
<212> DNA
<213> Homo sapiens

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&lt;400&gt; 847

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ccagagcttg gcgatcccg agcagttggg tctgcggagg gagatgcctt cgggcagccc      180
caccacaaac agctcctccg ggtgcatcag aaacttggag tacagcacct tgatgggttc      240
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gggccaggaa tctcaacccc tgtgtcccat gcctgtgtag agggcaaagc tgccctgtcct      360
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tatctaggac tcttagatcg cacaattgac ttccggcctt gccgaatgga agctgtctcc      840
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acgtcgtgga tgcccttaat cggtctcctc ggtctttcac gctcaaggcc ttagcccttc      960
tgtatctcct cttgtacctc catggcgccc gtacgtgttg ccttcgatgc gcacgactcg      1020
cccgaataga ggagctctct ccttgctctc tcgactcttc gaagactgtc aaaccgctcg      1080
caatactcgc tgttgtatcc

```

&lt;210&gt; 848

&lt;211&gt; 685

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 848

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caacaacaaa ccagaagagg gcttaaaggga acttacaaaa gctgcacaca ggaatggaat      60
gaagaatgct gaagacatcc taaccatgga ggttttgaaa tccaccatga agcaagaact      120
ggaggcagca cagaaaaagc attctctttg tgaattgctc cgcataccca acatatgtaa      180
aagaatctgt ttccctgtcct ttgtgagatt tgcaagtacc atcccttttt ggggccttac      240
tttgacctc cagcatctgg gaaacaatgt ttctctgttg cagactctct ttggtgcagt      300
caccctcctg gccaatgttg ttgcaccttg ggcactgaat cacatgagcc gtcgactaag      360
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cattacctgt tctactgccc aagaaaaatga actaattcct tccataatca ggggaagagc      540
tactggaatc actggaaact ttgctaatat tgggggagcc ctggcttccc tcgtgatgat      600
cctaagcata tattctcgac ccctgccctg gatcatctat ggagtctttg ccatcctctc      660
tggccttght gtccctctcc ttccg

```

&lt;210&gt; 849

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

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gatttttaat aatgattcca cctgctatat tttgggtttt aattatcttc ggatggacgc      60
tcgtctacgg ttttgtatac ttcaaacagg gagaaacgat tatggacaag ttactccgtg      120
tcctctactg gattctcgtg aagaccttct tcagagagat ttccggtgctg caccaggagc      180
gtatccccaa agataagccg gtcattgctgg tgtgtgtctc gcatgccaac cagtttgtgg      240
acggaatggt catttcaacc catctggacc gcaagggtga ctttgtgggt gcggcctcga      300
gtttccgcaa gtacaagggt gtgggtctct tcatgaagct gatggcgtcc atcatttcgg      360
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<210> 850  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<400> 850  
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 gaggcactcc ggcgggcatg cttgatcaga agaaaggga gtttgcttgg ttagtcact 180  
 ccacagaaac ccatggtaat gttcccctgt gctctgtgtg tgtaaatacg tgtgggtgca 240  
 taccagactg aatgggaagg tgtctctctt gatggcttgt gccgcagtag ttctgtgtgt 300  
 gtgcataatat gtgtatgtat atatgttgtg tgggtgtgtg tgtttgtgaa gggatggcaa 360  
 cctgtccccc tcaaagccac tgccttatca tggct 395

<210> 851  
 <211> 904  
 <212> DNA  
 <213> Homo sapiens

<400> 851  
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 tccagcatgc ccttatgcc gtcattccca agggctcctc cgtgggtaca ggaaccaact 180  
 tgcacagtga gtctgccagt tttctaacca gcccaaagct catcatgtgc ctacccttg 240  
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 gacttagttt attgtagaat gtaggggtgc taaataaaaag ctgctgcaca tactaagatg 360  
 tttagtttgt taaattatcc tattttatta tagctatttt atattaaaat ttaacaaatt 420  
 caggtaaaaca ctatgtatta ggcaattaca gacctctaga gctattggtt ataaaagaag 480  
 aagtaatctg gccgggctca gtggctcaca cctctaaacc cagctcttag ggaggccaag 540  
 gtaggtggag gacttgagcc aagaggtcta gtccagcctg ggcaacatgg ggaaaccctg 600  
 tctctacaaa aaatacaaaa attagccagg catagtgtca tgcgcctgtg gtcccagcta 660  
 ctctggaggc tgaagcagga aaattgcttg agcttaagaa gcataagttg cagtggggcc 720  
 aagatcaagc ccactggatt tctgccttgg ccaagaaaag aagagggagg agggggaaga 780  
 agggaggagg aaggaaattt aaccagcttt cagctttgaa tgggaatggc ccgagatgaa 840  
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 gcc 904

<210> 852  
 <211> 592  
 <212> DNA  
 <213> Homo sapiens

<400> 852  
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 cgaaactggt gctcccagcc cctggcaagc ccattcctccc cgtgcagaca ggggagcagg 180  
 cccagcaaga ggagcagtc agcggcatga ccattttctt cagcctcctt gtccatagcta 240  
 tctgcatcat attggtgcat ttactgatcc gatacagatt acatttcttg ccagagagtg 300  
 ttgctgttgt ttctttaggt attctcatgg gagcagttat aaaaattata gagtttaaaa 360

aactggcgaa	ttggaaggaa	gaagaaatgt	ttcgtccaaa	catgtttttc	ctcctcctgc	420
ttccccctat	tatctttgag	tctggatatt	cattacacaa	gggtaacttc	tttcaaaata	480
ttggttccat	caccctgttt	gctgtttttg	gaacggcaat	ctccgctttt	gtagtaggtg	540
gaggaattta	ttttctgggt	caggctcacg	taatctctaa	actcaacatg	ac	592

<210> 853  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<400> 853						
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cccctttgca	gaccagtag	gtgaatccaa	ttacgtagag	caggggactg	tggagctgtg	180
ttgtgagcag	caccaggtg	atgccccatg	gcagcatgtc	ccacattcct	tccatctttt	240
aaaaaaaaatt	tttctcgggtg	gcagtcttgc	tctgtcgcct	aggctggggt	acagtgggtgc	300
aatctcagct	caccgcagcc	tcaacctccc	gggttcaagc	aatcctccca	ccttggcctc	360
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ggccggacga	cgtcgt					436

<210> 854  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 854						
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aaccgtccag	cttatatcca	gacaggtct	caagccaccc	aggctggagt	gcagtggcac	180
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cagaggagct	gggaccacag	atcctt				266

<210> 855  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

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<210> 856  
 <211> 412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 856

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&lt;210&gt; 857

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 857

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&lt;210&gt; 858

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 858

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&lt;210&gt; 859

&lt;211&gt; 985

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (985)

&lt;223&gt; n = a,t,c or g



&lt;400&gt; 859

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&lt;210&gt; 860

&lt;211&gt; 396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 860

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&lt;210&gt; 861

&lt;211&gt; 686

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 861

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 <211> 383  
 <212> DNA  
 <213> Homo sapiens

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<210> 863  
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 <212> DNA  
 <213> Homo sapiens

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<210> 864  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n = a, t, c or g

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<220>

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&lt;222&gt; (1)...(505)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 866

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&lt;210&gt; 867

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 867

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acaatata						608

&lt;210&gt; 868

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 868

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<210> 869
<211> 704
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)...(704)
<223> n = a,t,c or g

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<210> 870
<211> 389
<212> DNA
<213> Homo sapiens

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<210> 871
<211> 643
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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&lt;222&gt; (1) ... (643)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 871

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&lt;210&gt; 872

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (498)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 872

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tcgcctcgga gtggttttta attgccaaca gatactacaa agtcagtga gcaagctctt      420
ttttcttcag tgggttattt gttggagtta tctcttttgg tcagctttca gatcgcttcg      480
gaaggaaaaa agtctatc                                498

```

&lt;210&gt; 873

&lt;211&gt; 404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

```

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ctgcgcgcgc tcgcctggga ttacgtgctg cgtcttgctg ctactcaatt gctcgggggt      180
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tgaagtccct cagattccat ttatcacaga caacccttgc ataatgtgtg tctgcttgaa      300
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 <212> DNA  
 <213> Homo sapiens

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 cttccatgga tgtacctgat gtccagaatc ttttcagtt cggacgtggc tttcatttcc 360  
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<210> 875  
 <211> 703  
 <212> DNA  
 <213> Homo sapiens

<400> 875  
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 acagatgccc tgattatccc tgcacagctg ggctttgccc agttctggct ctcccaaacc 540  
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 caacataaaa aaaaaaaaaat tcctaaagac aaaaaaaaaa aaa 703

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 <213> Homo sapiens

<400> 876  
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 agcctccac tgccacagt cttgtgcagc agggcacctg cgaggtgatt gcggctcacc 240  
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 catcgtcct 429

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 <212> DNA  
 <213> Homo sapiens

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 cagtgcctg gccagggtg acttccagga gcttgggtgc aaatttgagg ccaagggtcca 960  
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<210> 878  
 <211> 1139  
 <212> DNA  
 <213> Homo sapiens

<400> 878  
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<210> 879



<211> 478  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(478)  
 <223> n = a,t,c or g

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 aggggaccac tcagggtccat acttcctttg gacttggggc tttggccttg ggagggcgcg 420  
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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 880  
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 aatacagcgg ccctttgtac cagcctgggtg tacatgatca gctttctgcc ctacatagtt 420  
 ctattgggtc tacataacca attaagtttt gttaatcaga catttctgtg ccttctttcg 480  
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<210> 881  
 <211> 918  
 <212> DNA  
 <213> Homo sapiens

<400> 881  
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gctggcatgt	ttactaat					918

&lt;210&gt; 882

&lt;211&gt; 604

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (604)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 882

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ttgg						604

&lt;210&gt; 883

&lt;211&gt; 1206

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

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&lt;210&gt; 884

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(420)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 884

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&lt;210&gt; 885

&lt;211&gt; 1696

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

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<210> 886  
 <211> 1410  
 <212> DNA  
 <213> Homo sapiens

<400> 886						
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caacaaggga	atttaaaagt	gagattatcg	ggatttcagc	tgcctctctc	tatagttagt	540
acaggatcta	tcctcactct	gtggttcacg	acagacttcg	ctgtgagtgc	ccaaggttcc	600
aaagcattat	atgaaggtag	gagattgggt	gtgttttgca	catgcattca	ctgtccaaat	660
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ttccgtgggtg	tagacatttg	gcttctgtgt	aatgcaatgg	catttggtta	cactgttata	780
atcgccaaac	tttccagccc	aaaacgtgtt	cacaattttc	ttcttatcac	tagaactttt	840
cttcttgggg	ttttgttttg	gttaattttg	agcgaataag	ttttgagaaa	tttgactata	900
aactaatagc	cctcttatgt	ggtaaagagt	tcatttttaa	tgcagaagag	tttcattaaa	960
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atagaacttt	ggaaaaggaa	attatcattt	caagtattag	gttttaagaa	attgaactag	1260
ttaatacttt	aaaggccgat	gtgtgtctac	ttttgttttg	catggagatt	ttaaattgcc	1320
ttttacacgt	aatacaagag	ctactgtctg	taacagaaac	tctggagtct	gtaaatttaa	1380
aaagcaatct	atcggttaggg	gtgctgtatt				1410

<210> 887  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 887						
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gctatgtaca	gccataggat	tgctacaaat	gtttgggtat	attattttgtg	gtgtacttct	180
gggaccttca	ggactaaata	gtattaaggt	aagaacaaaa	ttggattgtt	ttggtatctg	240
tttaacagaa	tataaaaaga	gaattcatga	agactaaaaa	gtattgaatg	tgattaatgc	300
agataccagc	ttcgtataaa	ccatttcaaa	gatgtccttt	cagggtgcac	gggaagtctc	360
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<210> 888  
 <211> 887  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(887)  
 <223> n = a,t,c or g

<400> 888  
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 atagggtcaag taagtaaata gagatttaaa aaattatgaa cacaaaggaa gtaacagcct 180  
 tcctgtcttg ctgtagtaac tgaccatatg cgtttatata atgctaattg tgcaatttat 240  
 ttttgagttg gtctcaagta ttttggtttc gaatgtgaaa gatatgttag attttgaaag 300  
 tggtttttgt agtaaaatcc tcagttatatt tttttcttcg ccaagataca gattaccttt 360  
 cctttaagct gatcctaagg aagttatatt ttgtatacct tcagagaggg gataacatcc 420  
 caaagatatt agtgttcaca gaggatggat atttcctaag agcctggaat tatacagttg 480  
 acacacctca tggatatatt gcagccagta ctctatatga acaatccgtc tggatcacgg 540  
 atgtaggaag tggattcttt ggtcactctg ttaaaaaata cagttctttt ggtgatcttg 600  
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 acccagcaga attatatgta gaggacacag gagatattta cattgtggat ggagatggag 720  
 gattgaataa cagattgatc aaactgtccc aagatttcat gatcctttgg ctgcatggag 780  
 aaaatgggac agggcctgct aagttcaaca tacctcacag tgttacactt gattcagctg 840  
 gtcgggtaca aatacagcgt catttgtgtc tggaaaaaaa aaaaaaa 887

<210> 889  
 <211> 1871  
 <212> DNA  
 <213> Homo sapiens

<400> 889  
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 gcagccttca gccagtgccc cctactgag gccaaagcgg caggaccag gccctctggc 120  
 ctccctgacc tgctcacctc cagcggtgtg gccacacag tctgccaacc ctttctgtg 180  
 ccgggggggt ttctcccaa gccctggggc cagctcctcc aagacgtctt gccaccagt 240  
 ctacccggac ttggtgaaca ggggcagctc aggtataggg actccctgga cccaccgaa 300  
 gttctaaggc ggggggcccg tgtccccaca gagcctggcc tggagccctg gaaggaggcc 360  
 ctggtgcccg cccagggcag ctacagcagc agcagcaaca gtggagactg gggatgggac 420  
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 cactttctgt ttggggagcc caccctgaga aaaaggaaga gcccgggcca ggtcatgttc 540  
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 ttctactaca cagagctgga tgttggtgtg gacacgtga ccgacgggct gtccagctg 720  
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 gccttgtcct ccaggatcgg agtcaccctg aggaagcccc gcggcgacgc gaagaagtgc 1020  
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cctccccccc gccagggtcgg ggaggggtcc caccactcaa agtgcctcta aagaaaccag 1320
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gccaccctcc cgctgtcgg cccgtagatt tatcaagggt gttatgggccc cagctttggg 1440
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aattttattga aagtgatcgc tttgcaagga tgtctaagct aatcccgtca cagaaaggaa 1860
acgcacagggc g 1871

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<210> 890  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

```

<400> 890
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gacttgtctt cggtagggac agtcaagtca ggcaaaaccg tgaacttggc tacagcaggc 180
acaatcaagc cgggcacagc catgaatctg actacagttg ggacaaccaa gccaggggatg 240
gtcatggatt tgatagcctc agaaccagac aagctgggca aagccatggc tacaagaagc 300
acagccaaac cagatatgac cacagagggg atagccatgg attcagcaac atcagaccca 360
gtcaagccgg acatgtatt 379

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<210> 891  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

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<400> 891
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tcgtgggcgt caagtatgtc aacaagctgg cgctggtctt cctggcctgc gtcgtgctgt 120
ccatcctggc catctatgcc ggcgtcatca agtctgcctt cgacccccg gacatcccgg 180
tctgcctcct ggggaaccgc acgctgtcac ggcgcagctt cgatgcctgc gtcaaggcct 240
acggcatcca caacaactca gccacctccg cgctctgggg cctcttctgc aacggctccc 300
agcccagcgc cgctgtgac gagtacttca tccagaacaa cgtcaccgaa attcagggca 360
tcccgggcgc ggccagtggg gtcttcctgg agaaccg 397

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<210> 892  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

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<400> 892
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tgaatacatc tgggaggttg gtgtgggctt cgctcactcc cccagccta actacatcca 180
cgatatgaac cggatggagc tgctgaaact gctgctgaca tgcttctccg aggccatgta 240

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cctgccccca	gctccggaaa	gtggcagcac	caacccatgg	gttcagttct	tttgttccac	300
ggagaacaga	catgcctgc	ccctcttcac	ctccctcctc	aacaccgtgt	gtgcctatga	360
ccctgtggaa	tacgggatcc	cctacaacca	cctgtatt			398

<210> 893  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<400> 893						
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agctggacaa	gatgctggac	ccccaggtgt	ggcgggaggc	agctaccag	gtcttctctg	180
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actgccactt	cgatgccgcc	ctgggtgcct	tcatcaactt	cttcacgtca	gtgttgcca	300
ccctcgtggt	gtttgctgtg	ctgggcttca	aggccaacat	catgaatgag	aagtgtgtgg	360
tcgagaatgc	tgagaaaatc	ctagggtacc	gtgtatt			397

<210> 894  
 <211> 380  
 <212> DNA  
 <213> Homo sapiens

<400> 894						
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atggaaccaa	gaagttcatg	caggagctga	cggagatgct	gggcttccgc	ccctaccgct	120
tctatttcta	catgtggaag	ttcgtgtctc	ctctatgcat	ggctgtgctc	accacagcca	180
gcatcatcca	gctgggggtc	acgcccccg	gctacagcgc	ctggatcaag	gaggaggctg	240
ccgagcgcta	cctgtatttc	cccaactggg	ccatggcacc	cctgatcacc	ctcatcgctg	300
tggcgacgct	gcccatccct	gtggtgttcg	tcctgcggca	cttcaccta	atctgtgatg	360
gtccaacac	cccatgtatt					380

<210> 895  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(389)  
 <223> n = a,t,c or g

<400> 895						
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atgccaatgg	tggtgacggg	ctccttttca	ggttcctggc	tcacgtcagc	tcctacacag	180
agacaccagt	ggtggcctgc	atcgtgtcgg	ggttcctggc	agcgctcctc	gcactgttgg	240
tcagcttgag	agacctgata	gagatgatgt	ctatcggcac	gctcctggcc	tacaccttgg	300
tctctgtctg	tgtcttgctc	cttcgacacc	accctgagag	tgacattgat	ggttttgtca	360
agttcttgtc	tgaggagcac	acgtgtagt				389

<210> 896  
 <211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 896  
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 caaatgggccc aaagatgggc ctccctgatga tgattctagg ccaaattatc ctgaatggca 180  
 accaagccaa ggaggctgag atttgggaaa tgctctggag gatgggggtg cagcgggaaa 240  
 ggaggctttc catttttggg aacccaaaga gacttctgtc tgtggagtgt gtatggcagc 300  
 gttacttaga ctacaggcca gtaactgact gtaaaccagt ggagtatgag tttttctggg 360  
 gcccaagatc ccacctagaa accaccaaga tgaaaattct gaagtccatg gcgaa 415

<210> 897  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 897  
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 agcttgaccc tcagaagtac catgacctgg ccaagttgaa ggtggcaatc aaataccacc 120  
 agaaagagtt tgttgctcag cccaactgcc aacagttgct tgccaccctg tggatatgatg 180  
 gcttcctctg atggcgccgg aaacactggg tagtcaagct tctaacctgc atgaccattg 240  
 ggttcctggt tcccatgctg tctatagcct acctgatctc acccaggagc aaccttgggc 300  
 tgttcatcaa gaaacccttt atcaagttta tctgccacac agcatcctat ttgaccttcc 360  
 tctctatgct tctcctggct tctcagcaca ttgtcaggac agaccttcat gtacaggggc 420  
 cctgtatt 428

<210> 898  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(444)  
 <223> n = a,t,c or g

<400> 898  
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 caatgccatg ctacagttgg gccccttctt atattggaca tttctggctg cctttgaagg 180  
 gacagtgttc ttctttggga cttactttct ttttcagact gcacccctag aagaaaatgg 240  
 aaaggtatac ggaaactgga cttttggaac cattgttttt acagtcttag tattcactgt 300  
 aaccttgaag cttgccttgg ataccgatt ctggacgtgg ataaatcact ttgtgatttg 360  
 gggttcttta gccttctatg tatttttctc attcttctgg ggaggaatta tttggccttt 420  
 tctcaagcaa cagagaatgg cgaa 444



<210> 899  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<400> 899  
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 agcctttcaa ggtgaacaga atgatttcaa ctccagccaa ggtgggaaag acttttgcca 180  
 ccaacatggg ctgtttgagc accaaaaaac ccataatggg gagaggcctt atgagttcag 240  
 tgaatgtggg gaattgttta ggtacaactc caaccttatt aaatatcagc aaaatcatgc 300  
 tggagaaagg ccttatgagg gcaactgaata tggaaagacc tttattagaa agtccaacct 360  
 agttcagcac cagaaaattc acagtgaagg ctttctttca aaaaggctctg accccattga 420  
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<210> 900  
 <211> 466  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1) ... (466)  
 <223> n = a,t,c or g

<400> 900  
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 ctgttgggcc tccgagagga ctgggatgac cgctggatca acgatgtgga agacagctac 180  
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 gccctggctg ctttcttttc ctactgcctt ggaatgggtg ttgctcttaa gatgtatccc 420  
 ctcaaacctt cctggagggt ctgtgccttc cctactctc ttctca 466

<210> 901  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 901  
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 gctgaatggc tacctgtgtc ggatagccaa agcagaggaa gtcattgctg ctgaagaaaa 360  
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<210> 902  
 <211> 1334  
 <212> DNA  
 <213> Homo sapiens

<400> 902  
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 gtattgcgca gcgatgcacg gccatcaagt accacttttc tcagcccatc cgcttgcgaa 180  
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 tggccacagt cagtttcttc tgggaggaga gcttgacca gcacgtggct ggactcctgt 360  
 tcctcatgac agggatattt tgcaccattt ccctctgtac ttatgccgcc agtatctcgt 420  
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<210> 903  
 <211> 701  
 <212> DNA  
 <213> Homo sapiens

<400> 903  
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 gaaaagccca atcttcagct cccaaagtta ggaaaagtgt cagtagtcga atccatgaag 180  
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 ttactgagga gactgagttc gcagaggctg accaagactt cagtgatgag aatcgcacct 300  
 accaggcttc cagcccggat gaggtcgtc tgggtgcagt gacagagagt gtgggcctca 360  
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 gactgcggac cctcgtggtt gcaaagaagg cgttgacaga ggagcagtac caggactttg 660  
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<210> 904  
 <211> 546  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 904

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tcgctgctgc	tgggcaactc	catcctcgtg	gacctgctgg	ggattgcggt	gggccatata	240
tactacttcc	tggaggacgt	cttccccaac	cagcctggga	ggcaagaggc	tcctgcagac	300
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&lt;400&gt; 905

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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1691

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&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 909

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<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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687

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<210> 914
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<212> DNA
<213> Homo sapiens

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 <212> DNA  
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&lt;400&gt; 917

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&lt;211&gt; 1327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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 <213> Homo sapiens  
  
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 <223> n = a,t,c or g

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 <213> Homo sapiens

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&lt;211&gt; 1758

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 924

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&lt;211&gt; 854

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 925

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

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&lt;211&gt; 415

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(415)

&lt;223&gt; n = a,t,c or g

&lt;400&gt; 927

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 933
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<212> DNA
<213> Homo sapiens

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680

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<210> 934
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<212> DNA
<213> Homo sapiens

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 <211> 952  
 <212> DNA  
 <213> Homo sapiens

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<210> 937  
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 <212> DNA  
 <213> Homo sapiens

<400> 937

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<400> 938

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&lt;211&gt; 711

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 939

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&lt;210&gt; 940

&lt;211&gt; 538

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 940

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&lt;211&gt; 2127

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 945

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 <212> DNA  
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 <212> DNA  
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 <212> DNA  
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<210> 951
<211> 1321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1321)
<223> n = a,t,c or g

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a                                                                 1321

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<210> 952
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<212> DNA
<213> Homo sapiens

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&lt;210&gt; 953

&lt;211&gt; 1205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 953

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 <213> Homo sapiens  
  
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 <223> n = a,t,c or g

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 <213> Homo sapiens

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<210> 956  
 <211> 1286

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 956

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&lt;210&gt; 957

&lt;211&gt; 2874

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 957

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 <213> Homo sapiens

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<211> 476  
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 <212> DNA  
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 <212> DNA  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 966

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&lt;211&gt; 1446

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 967

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&lt;211&gt; 1495

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 968

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 970

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&lt;400&gt; 971

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 972

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 1694

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 978

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&lt;211&gt; 2203

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

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&lt;210&gt; 987

&lt;211&gt; 1884

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 987

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&lt;210&gt; 988

&lt;211&gt; 935

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

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&lt;210&gt; 989

&lt;211&gt; 2528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

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<211> 703
<212> DNA
<213> Homo sapiens
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<210> 991
<211> 335
<212> DNA
<213> Homo sapiens
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gaccatgtct	ggctgtaact	ggctcccaac	ccaacaaca	caaagttggg	ctaacattct		300
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<210> 992
<211> 447
<212> DNA
<213> Homo sapiens
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<210> 993  
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 <213> Homo. sapiens

<400> 993						
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 <211> 1459  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 742  
 <212> DNA  
 <213> Homo sapiens

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<210> 997

<211> 745  
 <212> DNA  
 <213> Homo sapiens

<400> 997  
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<210> 998  
 <211> 1040  
 <212> DNA  
 <213> Homo sapiens

<400> 998  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1004

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&lt;211&gt; 1968

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1005

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 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1011  
 Met Ser Leu Pro Trp Thr Phe Thr Val Leu Ile Leu Ala Pro Ser Leu  
   1                          5                          10                          15  
 Ser Gly Ser Leu Ser Gly Lys Ser Ser Thr Cys Ala Pro Ala Pro Ser  
           20                          25                          30  
 Ala Pro Gly Ser Arg Ser Ser Gly Pro Arg Arg Asn His His Trp Ile  
           35                          40                          45  
 Ser Arg Tyr Thr Glu Ala Glu Pro Leu Trp Lys Ala Gln Asp Ile Ser  
           50                          55                          60  
 Thr Phe Cys Pro Ser Val Ala Val Thr Phe Arg Gly Asn Ser Val Asn  
       65                          70                          75                          80  
 Phe Ala \*  
       82

<210> 1012  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 1012  
 Met Ala Ser Glu Val Val Cys Gly Leu Ile Phe Arg Leu Leu Leu Pro  
   1                          5                          10                          15  
 Ile Cys Leu Ala Val Ala Cys Ala Phe Arg Tyr Asn Gly Leu Ser Phe  
           20                          25                          30  
 Val Tyr Leu Ile Tyr Leu Leu Leu Ile Pro Leu Phe Ser Glu Pro Thr  
           35                          40                          45  
 Lys Thr Thr Met Gln Gly His Thr Gly Arg Leu Leu Lys Ser Leu Cys  
           50                          55                          60  
 Phe Ile Ser Leu Ser Phe Leu Leu Leu His Ile Ile Phe His Ile Thr  
       65                          70                          75                          80  
 Leu Val Ser Leu Glu Ala Gln His Arg Ile Ala Pro Gly Tyr Asn Cys  
           85                          90                          95  
 Ser Thr Trp Glu Lys Thr Phe Arg Gln Ile Gly Phe Glu Ser Leu Lys  
           100                          105                          110  
 Gly Ala Asp Ala Gly Asn Gly Ile Arg Val Leu Val Pro Asp Ile Gly  
           115                          120                          125  
 Met Val Ile  
       130 131

<210> 1013  
 <211> 231  
 <212> PRT  
 <213> Homo sapiens

<400> 1013  
 Met Ile Gly Thr Ile Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn Ala  
 1 5 10 15  
 Ala Leu Thr Ala Leu Gly Ala Gly Gln His Arg Thr Ala Leu Asn Thr  
 20 25 30  
 Tyr Tyr Ser Leu Ala Ala Ser Thr Leu Gly Thr Phe Ala Leu Ser Ala  
 35 40 45  
 Leu Val Gly Glu Asp Gly Arg Leu Asp Met Val His Ile Gln Asn Ala  
 50 55 60  
 Ala Leu Ala Gly Gly Val Val Val Gly Thr Ser Ser Glu Met Met Leu  
 65 70 75 80  
 Thr Pro Phe Gly Ala Leu Ala Ala Gly Phe Leu Ala Gly Thr Val Ser  
 85 90 95  
 Thr Leu Gly Tyr Lys Phe Phe Thr Pro Ile Leu Glu Ser Lys Phe Lys  
 100 105 110  
 Val Gln Asp Thr Cys Gly Val His Asn Leu His Gly Met Pro Gly Val  
 115 120 125  
 Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu Ala Thr His Glu  
 130 135 140  
 Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu Ile Ala Glu Gly  
 145 150 155 160  
 Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu Phe Gly Leu Phe  
 165 170 175  
 Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu Gly Gly Ile Ile  
 180 185 190  
 Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp His Trp Val Ala  
 195 200 205  
 Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln Ile Leu Pro Tyr  
 210 215 220  
 His His Gln Gly Ser Cys \*  
 225 230

<210> 1014  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1014  
 Met Cys Glu Ile Ala Asp Leu Trp Ile Gly Leu Leu Trp Leu Phe Phe  
 1 5 10 15  
 Val Ile Tyr Cys Phe Ser Phe Asn Ser Leu Thr Thr Val Cys Arg Ala  
 20 25 30  
 Ala Val Val Phe Trp Arg Ser Ala Pro Asp Pro Gly Ala Leu Gly Phe  
 35 40 45  
 Phe Ser Ile Trp Lys Tyr His Gln Leu Arg Leu \*  
 50 55 59

<210> 1015

<211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 1015  
 Met Met Thr Val Tyr Pro Leu Leu Gly Tyr Leu Ala Arg Val Gln Leu  
 1 5 10 15  
 Leu Gly His Ile Phe Gly Asp Ile Tyr Pro Ser Ile Phe His Val Leu  
 20 25 30  
 Ile Leu Asn Leu Ile Ile Val Gly Ala Gly Val Ile Met Ala Cys Phe  
 35 40 45  
 Tyr Pro Asn Ile Gly Gly Ile Ile Arg Tyr Ser Gly Ala Ala Cys Gly  
 50 55 60  
 Leu Ala Phe Val Phe Ile Tyr Pro Ser Leu Ile Tyr Ile Ile Ser Leu  
 65 70 75 80  
 His Gln Glu Glu Arg Leu Thr Trp Pro Lys Leu Ile Phe His Val Phe  
 85 90 95  
 Ile Ile Ile Leu Gly Val Ala Asn Leu Ile Val Gln Phe Phe Met \*  
 100 105 110 111

<210> 1016  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1016  
 Met Ala Lys Tyr Ala Ser Met Thr Phe Lys Leu Phe Ser Leu Cys Val  
 1 5 10 15  
 Cys Met Tyr Ile His Ala Cys Thr His Thr His Ile Ser His Thr Asp  
 20 25 30  
 Ile Asp Ile Lys Gln Phe Tyr Ala Gln Glu Tyr Gln Gly Gln Pro Lys  
 35 40 45  
 Asp Lys Thr Asn Arg Ser Val Ile Tyr Cys Val Phe Asn Phe Ser Thr  
 50 55 60  
 Tyr Phe Tyr \*  
 65 67

<210> 1017  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1017  
 Met Arg Leu Leu Phe Ser Cys Arg Gly Arg Gly Met Phe Leu Phe Arg  
 1 5 10 15  
 Arg Arg Met Leu Pro Ser Arg Asp Arg Tyr Tyr Lys Asp Val Glu Leu  
 20 25 30  
 Ile Phe Asn Tyr Leu Gly Phe Leu Ile Val Ser Gly Leu Leu Asp Leu  
 35 40 45  
 Ile Phe \*  
 50

<210> 1018  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1018  
 Met Leu Arg Phe Tyr Leu Ile Ala Gly Gly Ile Pro Leu Ile Ile Cys  
   1                  5                  10                  15  
 Gly Ile Thr Ala Val Asn Ile His Asn Tyr Arg Asp His Ser Pro  
           20                  25                  30  
 Tyr Cys Trp Leu Val Trp Arg Pro Ser Leu Gly Ala Phe Tyr Ile Pro  
           35                  40                  45  
 Val Ala Leu Ile Leu Leu Ile Thr Trp Ile Tyr Phe Leu Cys Ala Gly  
           50                  55                  60  
 Leu Arg Leu Arg Gly Pro Leu Ala Gln Asn Pro Lys Ala Gly Asn Ser  
   65                  70                  75                  80  
 Arg Ala Ser Leu Glu Ala Gly Glu Glu Leu Arg Gly Ser Thr Arg Leu  
                   85                  90                  95  
 Arg Gly Ser Gly Pro Leu Leu Ser Asp Ser Gly Ser Leu Leu Ala Thr  
           100                  105                  110  
 Gly Ser Ala Arg Val Gly Thr Pro Gly Pro Pro Glu Asp Gly Asp  
           115                  120                  125          127

<210> 1019  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 1019  
 Met Gly Ser Ser Arg Leu Ala Ala Leu Leu Leu Pro Leu Leu Leu Ile  
   1                  5                  10                  15  
 Val Ile Asp Leu Ser Asp Ser Ala Gly Ile Gly Phe Arg His Leu Pro  
           20                  25                  30  
 His Trp Asn Thr Arg Cys Pro Leu Ala Ser His Thr Asp Asp Ser Phe  
           35                  40                  45  
 Thr Gly Ser Ser Ala Tyr Ile Pro Cys Arg Thr Trp Trp Ala Leu Phe  
           50                  55                  60  
 Ser Thr Lys Pro Trp Cys Val Arg Val Trp His Cys Ser Arg Cys Leu  
   65                  70                  75                  80  
 Cys Gln His Leu Leu Ser Gly Gly Ser Gly Leu Gln Arg Gly Leu Phe  
                   85                  90                  95  
 His Leu Leu Val Gln Lys Ser Lys Lys Ser Ser Thr Phe Lys Phe Tyr  
           100                  105                  110  
 Arg Arg His Lys Met Pro Ala Pro Ala Gln Arg Lys Leu Leu Pro Arg  
           115                  120                  125  
 Arg His Leu Ser Glu Lys Ser His His Ile Ser Ile Pro Ser Pro Asp  
   130                  135                  140  
 Ile Ser His Lys Gly Leu Arg Ser Lys Arg Thr Pro Pro Phe Gly Ser  
  145                  150                  155                  160  
 Arg Asp Met Gly Lys Ala Phe Pro Lys Trp Asp Ser Pro Thr Pro Gly  
           165                  170                  175  
 Gly Asp Arg Pro Ser Ser Phe Glu Leu Leu Pro \*  
           180                  185          187

<210> 1020  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 1020  
 Met Ile Leu Leu Cys Pro Gly Leu Thr Asp Leu Ser Val Phe Leu Phe  
 1 5 10 15  
 Ser Leu Thr Ile Gly His Phe Ser Arg Val Arg Gly Gln Thr Ile Thr  
 20 25 30  
 Ala Cys Pro Ser Ser Arg Ile Pro Ala Gly Phe Gln Asp Ile Val Gln  
 35 40 45  
 Gly Ser Ala Asn Ser Gly Pro Arg Ala Leu Ala Arg Cys Pro Cys Leu  
 50 55 60 64  
 \*

<210> 1021  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1021  
 Met Pro Gly Phe Lys Phe Cys Ser Ser Leu Arg Phe Leu Tyr Leu Ile  
 1 5 10 15  
 Asn Phe Pro Ile Gly Lys Phe Val Cys Leu Ala Ile Leu Leu Pro His  
 20 25 30  
 Phe Pro Leu Leu Ser Cys Cys Pro Leu Gln Asp His Leu Asp Phe Pro  
 35 40 45  
 Gly Lys Glu Ser Arg Tyr Ser Gly Ser Cys Trp Leu Pro Ser Tyr Ser  
 50 55 60  
 Leu Ser Val Ala Gly Ser Pro Leu Gly His Leu Pro Asn Thr Tyr Met  
 65 70 75 80  
 His Thr Pro Arg Thr Phe Ser Leu Leu Pro Ile Pro His Pro Ser Val  
 85 90 95  
 Asn Trp Asp Ser Phe Lys Pro Phe Ser Ile Arg Glu Ala Leu Ala Thr  
 100 105 110  
 Val Glu Ser Leu Gly Arg Gln Ala Phe Pro Asn Thr Pro Thr Thr Trp  
 115 120 125  
 Ala Phe Thr Leu His Leu Ser \*  
 130 135

<210> 1022  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<400> 1022  
 Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser



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      1           5           10           15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130          135          140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145          150          155          160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165          170          175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180          185

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&lt;210&gt; 1023

&lt;211&gt; 186

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

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Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
      1           5           10           15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130          135          140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145          150          155          160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165          170          175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180          185

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<210> 1024  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1024  
 Met Val Cys Leu Val Gly Phe Leu Glu Leu Ile Leu Tyr Val Tyr Arg  
 1 5 10 15  
 Phe Arg Gln Ser Leu Ala Leu Ser His Arg Met Glu Cys Asn Gly Thr  
 20 25 30  
 Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro  
 35 40 45  
 Thr Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr Arg His His Ala  
 50 55 60  
 Arg Val Ile Phe Phe Val Phe Leu \*  
 65 70 72

<210> 1025  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1025  
 Met Phe Tyr Lys Leu Val Leu Trp Phe Trp Trp Cys Leu Thr Thr Arg  
 1 5 10 15  
 Gly Asn Leu Leu Cys Leu Ala Cys Ile Phe Ala Thr Leu Ser Leu Glu  
 20 25 30  
 Ser Lys Asn Phe Pro Thr Leu Gln Ala Thr Leu Leu Ile Arg Gln His  
 35 40 45  
 Phe Ile Tyr Lys Thr Phe Val Trp Pro Thr Val Cys His Asp Leu Cys  
 50 55 60  
 Ser Leu \*  
 65 66

<210> 1026  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1026  
 Met Gln Ala Gly Ser Ala Leu Trp His Leu Trp Ala Glu Gly Arg Cys  
 1 5 10 15  
 Trp Leu Trp Ala Gly Phe Gly Asn Phe Gly Glu Arg Pro His Leu Lys  
 20 25 30  
 Thr His Thr Asp Tyr Pro Gly Pro Thr Glu Ala Ser Cys Ile Gln Pro  
 35 40 45  
 Tyr Phe Pro Ser Arg Ile Met Leu Ser Ala Thr Pro Leu Glu Gly Tyr  
 50 55 60  
 Val Phe \*  
 65 66

<210> 1027  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1027  
 Met Leu Cys Val Trp Ile Lys Val Leu Phe Leu Leu Ile Ala Glu Ser  
 1 5 10 15  
 Asn Thr Trp Leu Ser Pro Arg Thr Lys Asp Val Leu Lys Ser Glu  
 20 25 30  
 Pro Thr Gln Ile Tyr Pro His Thr Ser Arg Lys Gln Phe Lys Lys Pro  
 35 40 45  
 Gln Glu Ser Lys His Ser Phe Ile Gly Tyr \*  
 50 55 58

<210> 1028  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1028  
 Met Phe Gln Val Gly Gly Arg Val Phe Lys Arg Cys Ile Phe Ser Phe  
 1 5 10 15  
 Cys Cys Cys His Phe Ile Gly Leu Gly Leu Gly Val Cys Phe Ser Ser  
 20 25 30  
 Leu Asn Gly Thr Arg Met Phe Ala Asp Ser Tyr Ser Val \*  
 35 40 45

<210> 1029  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1029  
 Met Ala Phe Arg Thr Cys Phe Leu Ser Cys Leu Thr Val Val Lys Val  
 1 5 10 15  
 Cys Ser Lys Ala Ser Pro Ser Phe Ser Thr Gln Gln Pro Cys Val Thr  
 20 25 30  
 Thr Lys Val Glu Leu Ser Leu Ile Cys Cys Cys Phe Ser Ser Lys Leu  
 35 40 45  
 Pro Asn Lys Ala Lys Asn Thr Leu Val Phe Tyr Ser \*  
 50 55 60

<210> 1030  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1030  
 Met Trp Leu Arg Lys Cys Leu Leu Gly Leu Ser Leu Ile Ser Phe Arg  
 1 5 10 15  
 Val Cys Gly Pro Leu Ile Ala Leu Trp Val Val Ser Asp Ser Ser Ile  
 20 25 30  
 Arg Arg Leu Asn Pro Leu Val Val Phe Leu Cys Val Cys Ala Glu Leu  
 35 40 45  
 Gly \*  
 49

<210> 1031  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 1031  
 Met Ile Val Tyr Trp Val Leu Met Ser Asn Phe Leu Phe Asn Thr Gly  
 1 5 10 15  
 Lys Phe Ile Phe Asn Phe Ile His His Ile Asn Asp Thr Asp Thr Ile  
 20 25 30  
 Leu Ser Thr Asn Asn Ser Asn Pro Val Ile Cys Pro Ser Ala Gly Ser  
 35 40 45  
 Gly Gly His Pro Asp Asn Ser Ser Met Ile Phe Tyr Ala Asn Asp Thr  
 50 55 60  
 Gly Ala Gln Gln Phe Glu Lys Trp Trp Asp Lys Ser Arg Thr Val Pro  
 65 70 75 80  
 Phe Tyr Leu Val Gly Leu Leu Leu Pro Leu Leu Asn Phe Lys Ser Pro  
 85 90 95  
 Ser Phe Phe Ser Lys Phe Asn Ile Leu Gly Ile Asn Asn Gln Val Ile  
 100 105 110  
 Leu Pro Gly Val Thr Glu Met Pro Gly Tyr Cys Pro Phe Leu Leu Pro  
 115 120 125  
 Val Ser Thr Glu Cys Cys Ala Val Ala Thr Ser Tyr Thr Cys Phe Glu  
 130 135 140  
 Glu Lys Asn Ile Gly Gln Cys Cys  
 145 150 152

<210> 1032  
 <211> 1764  
 <212> PRT  
 <213> Homo sapiens

<400> 1032  
 Met Pro Ser Arg Leu Lys Ala Leu Gly Thr Leu Val Ser His Val Thr  
 1 5 10 15  
 Leu Arg Leu Leu Lys Pro Glu Cys Val Leu Asp Lys Ser Trp Cys Gln  
 20 25 30  
 Glu Glu Leu Ser Val Ala Val Lys Arg Ala Val Met Leu Leu His Thr  
 35 40 45  
 His Thr Ile Thr Ser Arg Val Gly Lys Gly Glu Pro Gly Ala Ala Pro  
 50 55 60  
 Leu Ser Ala Pro Ala Phe Ser Leu Val Phe Pro Phe Leu Lys Met Val

65					70					75				80
Leu	Thr	Glu	Met	Pro	His	His	Ser	Glu	Glu	Glu	Glu	Trp	Met	Ala
				85					90				95	
Gln	Ile	Leu	Gln	Ile	Leu	Thr	Val	Gln	Ala	Gln	Leu	Arg	Ala	Ser
			100					105					110	Pro
Asn	Thr	Pro	Pro	Gly	Arg	Val	Asp	Glu	Asn	Gly	Pro	Glu	Leu	Leu
		115					120					125		Pro
Arg	Val	Ala	Met	Leu	Arg	Leu	Leu	Thr	Trp	Val	Ile	Gly	Thr	Gly
	130					135					140			Ser
Pro	Arg	Leu	Gln	Val	Leu	Ala	Ser	Asp	Thr	Leu	Thr	Thr	Leu	Cys
	145					150					155			Ala
Ser	Ser	Ser	Gly	Asp	Asp	Gly	Cys	Ala	Phe	Ala	Glu	Gln	Glu	Glu
			165						170					Val
Asp	Val	Leu	Leu	Cys	Ala	Leu	Gln	Ser	Pro	Cys	Ala	Ser	Val	Arg
			180					185					190	Glu
Thr	Val	Leu	Arg	Gly	Leu	Met	Glu	Leu	His	Met	Val	Leu	Pro	Ala
	195						200					205		Pro
Asp	Thr	Asp	Glu	Lys	Asn	Gly	Leu	Asn	Leu	Leu	Arg	Arg	Leu	Trp
	210					215						220		Val
Val	Lys	Phe	Asp	Lys	Glu	Glu	Glu	Ile	Arg	Lys	Leu	Ala	Glu	Arg
	225					230					235			Leu
Trp	Ser	Met	Met	Gly	Leu	Asp	Leu	Gln	Pro	Asp	Leu	Cys	Ser	Leu
			245						250					Leu
Ile	Asp	Asp	Val	Ile	Tyr	His	Glu	Ala	Ala	Val	Arg	Gln	Ala	Gly
			260					265					270	Ala
Glu	Ala	Leu	Ser	Gln	Ala	Val	Ala	Arg	Tyr	Gln	Arg	Gln	Ala	Ala
	275						280					285		Glu
Val	Met	Gly	Arg	Leu	Met	Glu	Ile	Tyr	Gln	Glu	Lys	Leu	Tyr	Arg
	290					295					300			Pro
Pro	Pro	Val	Leu	Asp	Ala	Leu	Gly	Arg	Val	Ile	Ser	Glu	Ser	Pro
	305					310					315			Pro
Asp	Gln	Trp	Glu	Ala	Arg	Cys	Gly	Leu	Ala	Leu	Ala	Leu	Asn	Lys
			325						330					Leu
Ser	Gln	Tyr	Leu	Asp	Ser	Ser	Gln	Val	Lys	Pro	Leu	Phe	Gln	Phe
			340					345					350	Phe
Val	Pro	Asp	Ala	Leu	Asn	Asp	Arg	His	Pro	Asp	Val	Arg	Lys	Cys
	355						360					365		Met
Leu	Asp	Ala	Ala	Leu	Ala	Thr	Leu	Asn	Thr	His	Gly	Lys	Glu	Asn
	370					375					380			Val
Asn	Ser	Leu	Leu	Pro	Val	Phe	Glu	Glu	Phe	Leu	Lys	Asn	Ala	Pro
	385					390					395			Asn
Asp	Ala	Ser	Tyr	Asp	Ala	Val	Arg	Gln	Ser	Val	Val	Val	Leu	Met
			405						410					Gly
Ser	Leu	Ala	Lys	His	Leu	Asp	Lys	Ser	Asp	Pro	Lys	Val	Lys	Pro
			420					425					430	Ile
Val	Ala	Lys	Leu	Ile	Ala	Ala	Leu	Ser	Thr	Pro	Ser	Gln	Gln	Val
	435						440					445		Gln
Glu	Ser	Val	Ala	Ser	Cys	Leu	Pro	Pro	Leu	Val	Pro	Ala	Ile	Lys
	450					455					460			Glu
Asp	Ala	Gly	Gly	Met	Ile	Gln	Arg	Leu	Met	Gln	Gln	Leu	Leu	Glu
	465					470				475				Ser
Asp	Lys	Tyr	Ala	Glu	Arg	Lys	Gly	Ala	Ala	Tyr	Gly	Leu	Ala	Gly
			485						490					Leu
Val	Lys	Gly	Leu	Gly	Ile	Leu	Ser	Leu	Lys	Gln	Gln	Glu	Met	Met
			500					505					510	Ala
Ala	Leu	Thr	Asp	Ala	Ile	Gln	Asp	Lys	Lys	Asn	Phe	Arg	Arg	Arg
	515						520					525		Glu
Gly	Ala	Leu	Phe	Ala	Phe	Glu	Met	Leu	Cys	Thr	Met	Leu	Gly	Lys
	530					535					540			Leu

Phe Glu Pro Tyr Val Val His Val Leu Pro His Leu Leu Leu Cys Phe  
 545 550 555 560  
 Gly Asp Gly Asn Gln Tyr Val Arg Glu Ala Ala Asp Asp Cys Ala Lys  
 565 570 575  
 Ala Val Met Ser Asn Leu Ser Ala His Gly Val Lys Leu Val Leu Pro  
 580 585 590  
 Ser Leu Leu Ala Ala Leu Glu Glu Glu Ser Trp Arg Thr Lys Ala Gly  
 595 600 605  
 Ser Val Glu Leu Leu Gly Ala Met Ala Tyr Cys Ala Pro Lys Gln Leu  
 610 615 620  
 Ser Ser Cys Leu Pro Asn Ile Val Pro Lys Leu Thr Glu Val Leu Thr  
 625 630 635 640  
 Asp Ser His Val Lys Val Gln Lys Ala Gly Gln Gln Ala Leu Arg Gln  
 645 650 655  
 Ile Gly Ser Val Ile Arg Asn Pro Glu Ile Leu Ala Ile Ala Pro Val  
 660 665 670  
 Leu Leu Asp Ala Leu Thr Asp Pro Ser Arg Lys Thr Gln Lys Cys Leu  
 675 680 685  
 Gln Thr Leu Leu Asp Thr Lys Phe Val His Phe Ile Asp Ala Pro Ser  
 690 695 700  
 Leu Ala Leu Ile Met Pro Ile Val Gln Arg Ala Phe Gln Asp Arg Ser  
 705 710 715 720  
 Thr Asp Thr Arg Lys Met Ala Ala Gln Ile Ile Gly Asn Met Tyr Ser  
 725 730 735  
 Leu Thr Asp Gln Lys Asp Leu Ala Pro Tyr Leu Pro Ser Val Thr Pro  
 740 745 750  
 Gly Leu Lys Ala Ser Leu Leu Asp Pro Val Pro Glu Val Arg Thr Val  
 755 760 765  
 Ser Ala Lys Ala Leu Gly Ala Met Val Lys Gly Met Gly Glu Ser Cys  
 770 775 780  
 Phe Glu Asp Leu Leu Pro Trp Leu Met Glu Thr Leu Thr Tyr Glu Gln  
 785 790 795 800  
 Ser Ser Val Asp Arg Ser Gly Ala Ala Gln Gly Leu Ala Glu Val Met  
 805 810 815  
 Ala Gly Leu Gly Val Glu Lys Leu Glu Lys Leu Met Pro Glu Ile Val  
 820 825 830  
 Ala Thr Ala Ser Lys Val Asp Ile Ala Pro His Val Arg Asp Gly Tyr  
 835 840 845  
 Ile Met Met Phe Asn Tyr Leu Pro Ile Thr Phe Gly Asp Lys Phe Thr  
 850 855 860  
 Pro Tyr Val Gly Pro Ile Ile Pro Cys Ile Leu Lys Ala Leu Ala Asp  
 865 870 875 880  
 Glu Asn Glu Phe Val Arg Asp Thr Ala Leu Arg Ala Gly Gln Arg Val  
 885 890 895  
 Ile Ser Met Tyr Ala Glu Thr Ala Ile Ala Leu Leu Leu Pro Gln Leu  
 900 905 910  
 Glu Gln Gly Leu Phe Asp Asp Leu Trp Arg Ile Arg Phe Ser Ser Val  
 915 920 925  
 Gln Leu Leu Gly Asp Leu Leu Phe His Ile Ser Gly Val Thr Gly Lys  
 930 935 940  
 Met Thr Thr Glu Thr Ala Ser Glu Asp Asp Asn Phe Gly Thr Ala Gln  
 945 950 955 960  
 Ser Asn Lys Ala Ile Thr Ala Leu Gly Val Glu Arg Arg Asn Arg  
 965 970 975  
 Val Leu Ala Gly Leu Tyr Met Gly Arg Ser Asp Thr Gln Leu Val Val  
 980 985 990  
 Arg Gln Ala Ser Leu His Val Trp Lys Ile Val Val Ser Asn Thr Pro  
 995 1000 1005  
 Arg Thr Leu Arg Glu Ile Leu Pro Thr Leu Phe Gly Leu Leu Leu Gly

1010	1015	1020
Phe Leu Ala Ser Thr Cys	Ala Asp Lys Arg Thr	Ile Ala Ala Arg Thr
1025	1030	1035
Leu Gly Asp Leu Val Arg	Lys Leu Gly Glu Lys	Ile Leu Pro Glu Ile
1045	1050	1055
Ile Pro Ile Leu Glu Glu	Gly Leu Arg Ser Gln	Lys Ser Asp Glu Arg
1060	1065	1070
Gln Gly Val Cys Ile Gly	Leu Ser Glu Ile Met	Lys Ser Thr Ser Arg
1075	1080	1085
Asp Ala Val Leu Tyr Phe	Ser Glu Ser Leu Val	Pro Thr Ala Arg Lys
1090	1095	1100
Ala Leu Cys Asp Pro Leu	Glu Glu Val Arg Glu	Ala Ala Ala Lys Thr
1105	1110	1115
Phe Glu Gln Leu His Ser	Thr Ile Gly His Gln	Ala Leu Glu Asp Ile
1125	1130	1135
Leu Pro Phe Leu Leu Lys	Gln Leu Asp Asp Glu	Glu Val Ser Glu Phe
1140	1145	1150
Ala Leu Asp Gly Leu Lys	Gln Val Met Ala Ile	Lys Ser Arg Val Val
1155	1160	1165
Leu Pro Tyr Leu Val Pro	Lys Leu Thr Thr Pro	Pro Val Asn Thr Arg
1170	1175	1180
Val Leu Ala Phe Leu Ser	Ser Val Ala Gly Asp	Ala Leu Thr Arg His
1185	1190	1195
Leu Gly Val Ile Leu Pro	Ala Val Met Leu Ala	Leu Lys Glu Lys Leu
1205	1210	1215
Gly Thr Pro Asp Glu Gln	Leu Glu Met Ala Asn	Cys Gln Ala Val Ile
1220	1225	1230
Leu Ser Val Glu Asp Asp	Thr Gly His Arg Ile	Ile Ile Glu Asp Leu
1235	1240	1245
Leu Glu Ala Thr Arg Ser	Pro Glu Val Gly Met	Arg Gln Ala Ala Ala
1250	1255	1260
Ile Ile Leu Asn Ile Tyr	Cys Ser Arg Ser Lys	Ala Asp Tyr Thr Ser
1265	1270	1275
His Leu Arg Ser Leu Val	Ser Gly Leu Ile Arg	Leu Phe Asn Asp Ser
1285	1290	1295
Ser Pro Val Val Leu Glu	Glu Ser Trp Asp Ala	Leu Asn Ala Ile Thr
1300	1305	1310
Lys Lys Leu Asp Ala Gly	Asn Gln Leu Ala Leu	Ile Glu Glu Leu His
1315	1320	1325
Lys Glu Ile Arg Leu Ile	Gly Asn Glu Ser Lys	Gly Glu His Val Pro
1330	1335	1340
Gly Phe Cys Leu Pro Lys	Lys Gly Val Thr Ser	Ile Leu Pro Val Leu
1345	1350	1355
Arg Glu Gly Val Leu Thr	Gly Ser Pro Glu Gln	Lys Glu Glu Ala Ala
1365	1370	1375
Lys Ala Leu Gly Leu Val	Ile Arg Leu Thr Ser	Ala Asp Ala Leu Arg
1380	1385	1390
Pro Ser Val Val Ser Ile	Thr Gly Pro Leu Ile	Arg Ile Leu Gly Asp
1395	1400	1405
Arg Phe Ser Trp Asn Val	Lys Ala Ala Leu Leu	Glu Thr Leu Ser Leu
1410	1415	1420
Leu Leu Ala Lys Val Gly	Ile Ala Leu Lys Pro	Phe Leu Pro Gln Leu
1425	1430	1435
Gln Thr Thr Phe Thr Lys	Ala Leu Gln Asp Ser	Asn Arg Gly Val Arg
1445	1450	1455
Leu Lys Ala Ala Asp Ala	Leu Gly Lys Leu Ile	Ser Ile His Ile Lys
1460	1465	1470
Val Asp Pro Leu Phe Thr	Glu Leu Leu Asn Gly	Ile Arg Ala Met Glu
1475	1480	1485

```

Asp Pro Gly Val Arg Asp Thr Met Leu Gln Ala Leu Arg Phe Val Ile
1490      1495      1500
Gln Gly Ala Gly Ala Lys Val Asp Ala Val Ile Arg Lys Asn Ile Val
1505      1510      1515      1520
Ser Leu Leu Leu Ser Met Leu Gly His Asp Glu Asp Asn Thr Arg Ile
      1525      1530      1535
Ser Ser Ala Gly Cys Leu Gly Glu Leu Cys Ala Phe Leu Thr Glu Glu
      1540      1545      1550
Glu Leu Ser Ala Val Leu Gln Gln Cys Leu Leu Ala Asp Val Ser Gly
      1555      1560      1565
Ile Asp Trp Met Val Arg His Gly Arg Ser Leu Ala Leu Ser Val Ala
      1570      1575      1580
Val Asn Val Ala Pro Gly Arg Leu Cys Ala Gly Arg Tyr Ser Ser Asp
1585      1590      1595      1600
Val Gln Glu Met Ile Leu Ser Ser Ala Thr Ala Asp Arg Ile Pro Ile
      1605      1610      1615
Ala Val Ser Gly Val Arg Gly Met Gly Phe Leu Met Arg His His Ile
      1620      1625      1630
Glu Thr Gly Gly Gly Gln Leu Pro Ala Lys Leu Ser Ser Leu Phe Val
      1635      1640      1645
Lys Cys Leu Gln Asn Pro Ser Ser Asp Ile Arg Leu Val Ala Glu Lys
      1650      1655      1660
Met Ile Trp Trp Ala Asn Lys Asp Pro Leu Pro Pro Leu Asp Pro Gln
1665      1670      1675      1680
Ala Ile Lys Pro Ile Leu Lys Ala Leu Leu Asp Asn Thr Lys Asp Lys
      1685      1690      1695
Asn Thr Val Val Arg Ala Tyr Ser Asp Gln Ala Ile Val Asn Leu Leu
      1700      1705      1710
Lys Met Arg Gln Gly Glu Glu Val Phe Gln Ser Leu Ser Lys Ile Leu
      1715      1720      1725
Asp Val Ala Ser Leu Glu Val Leu Asn Glu Val Asn Arg Arg Ser Leu
      1730      1735      1740
Lys Lys Leu Ala Ser Gln Ala Asp Ser Thr Glu Gln Val Asp Asp Thr
1745      1750      1755      1760
Ile Leu Thr *
      1763

```

```

<210> 1033
<211> 151
<212> PRT
<213> Homo sapiens

```

```

<400> 1033
Met Asn Arg Arg Ala Ser Gln Met Leu Leu Met Phe Leu Leu Ala Ile
1      5      10      15
Cys Leu Leu Ala Ile Ile Phe Val Pro Gln Glu Met Gln Met Leu Arg
      20      25      30
Glu Val Leu Ala Thr Leu Gly Leu Gly Ala Ser Ala Leu Ala Asn Thr
      35      40      45
Leu Ala Phe Ala His Gly Asn Glu Val Ile Pro Thr Ile Ile Arg Ala
      50      55      60
Arg Ala Met Gly Ile Asn Ala Thr Phe Ala Asn Ile Ala Gly Ala Leu
      65      70      75      80
Ala Pro Leu Met Met Ile Leu Ser Val Tyr Ser Pro Pro Leu Pro Trp
      85      90      95
Ile Ile Tyr Gly Val Phe Pro Phe Ile Ser Gly Phe Ala Phe Leu Leu

```



```

          100          105          110
Leu Pro Glu Thr Arg Asn Lys Pro Leu Phe Asp Thr Ile Gln Asp Glu
          115          120          125
Lys Asn Glu Arg Lys Asp Pro Arg Glu Pro Lys Gln Glu Asp Pro Arg
          130          135          140
Val Glu Val Thr Gln Phe *
145          150

```

```

<210> 1034
<211> 149
<212> PRT
<213> Homo sapiens

```

```

<400> 1034
Met Ala Leu Leu Leu Pro Arg Trp Phe Arg Glu Ala Pro Val Leu Phe
  1          5          10          15
Ser Thr Gly Trp Ser Pro Leu Asp Val Leu Leu His Ser Leu Leu Thr
          20          25          30
Gln Pro Ile Phe Leu Ala Gly Leu Ser Gly Phe Leu Leu Glu Asn Thr
          35          40          45
Ile Pro Gly Thr Gln Leu Glu Arg Gly Leu Gly Gln Gly Leu Pro Ser
          50          55          60
Pro Phe Thr Ala Gln Glu Ala Arg Met Pro Gln Lys Pro Arg Glu Lys
          65          70          75          80
Ala Ala Gln Val Tyr Arg Leu Pro Phe Pro Ile Gln Asn Leu Cys Pro
          85          90          95
Cys Ile Pro Gln Pro Leu His Cys Leu Cys Pro Leu Pro Glu Asp Pro
          100          105          110
Gly Asp Glu Gly Gly Ser Ser Glu Pro Glu Glu Met Ala Asp Leu
          115          120          125
Leu Pro Gly Ser Gly Glu Pro Cys Pro Glu Ser Thr Arg Glu Gly Val
          130          135          140
Arg Ser Gln Lys *
145          148

```

```

<210> 1035
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1035
Met Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu Ala Gln Asn
  1          5          10          15
Leu Val Ser Asp Ile Lys Ala Val Lys Ala Asn Trp Ser Lys Trp Asn
          20          25          30
Asp Asp Phe Glu Asn His Trp Leu Thr Pro Thr Ile Ser Glu Val Leu
          35          40          45
Ser Thr Ala Gly Pro Gln Gln Asn Ser Leu Thr Gly Ala Pro Gly Pro
          50          55          60
Ala Pro Pro Ser Arg His Val Phe Phe Gly Leu Gly Gly Leu Tyr Pro
          65          70          75          80
Glu Pro Thr Phe Lys Asn Trp *
          85          87

```

<210> 1036  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1036  
 Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile Ile Arg  
 1 5 10 15  
 Asp Phe Tyr Asn Ser Ile Val Asn Val Ala Gln Lys Arg Glu Leu Gly  
 20 25 30  
 Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile Val Gly  
 35 40 45  
 Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser Ser Ser  
 50 55 60  
 Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser Tyr His  
 65 70 75 80  
 Thr Gly Lys Lys Ser Pro Ser Val Tyr Ser Arg Ser Gln Tyr Val \*  
 85 90 95

<210> 1037  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1037  
 Met Ala Leu Ser Trp Met Thr Ile Val Val Pro Leu Leu Thr Phe Glu  
 1 5 10 15  
 Ile Leu Leu Val His Lys Leu Asp Gly His Asn Ala Phe Ser Cys Ile  
 20 25 30  
 Pro Ile Phe Val Pro Leu Trp Leu Ser Leu Ile Thr Leu Met Ala Thr  
 35 40 45  
 Thr Phe Gly Gln Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg Lys  
 50 55 60  
 Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu Tyr  
 65 70 75 80  
 Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Asn Glu Glu Thr Glu  
 85 90 95  
 Glu Thr Pro Val Pro Glu Pro Pro Lys Ile Ala Pro Met Phe Arg Lys  
 100 105 110  
 Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Leu Pro  
 115 120 125  
 Pro Pro Lys Leu Asn Ile Glu Met Pro Asp \*  
 130 135 138

<210> 1038  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1038

```

Met Val Leu Ser Gly Ile His Trp Tyr Ser Val Leu Leu Leu Ala Val
 1      5      10      15
Glu Phe Cys Arg Tyr Cys Pro Leu Arg Tyr Arg Cys Ser Thr Phe Ser
      20      25      30
Ser Trp Ala Arg Val Ser Ser Thr Pro Gln Ala Ser Ser Pro Val Ala
      35      40      45
Leu Thr Met Leu Ser Ser Arg Gly Arg Ser Glu Gly Gly Ala Leu *
 50      55      60      63

```

&lt;210&gt; 1039

&lt;211&gt; 286

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

```

Met Met Leu Gly Pro Val Thr Leu His Leu Val Gly His'Leu Leu Ala
 1      5      10      15
Phe Leu Asp Leu Leu Cys Pro Arg Gly Pro Ile His Ser Ile Leu Pro
      20      25      30
Met Thr Phe Glu Ala Val Lys Gln Asp His Gly Phe Met Leu Tyr Arg
      35      40      45
Thr Tyr Met Thr His Thr Ile Phe Glu Pro Thr Pro Phe Trp Val Pro
 50      55      60
Asn Asn Gly Val His Asp Arg Ala Tyr Val Met Val Asp Gly Val Phe
 65      70      75      80
Gln Gly Val Val Glu Arg Asn Met Arg Asp Lys Leu Phe Leu Thr Gly
      85      90      95
Lys Leu Gly Ser Lys Leu Asp Ile Leu Val Glu Asn Met Gly Arg Leu
      100      105      110
Ser Phe Gly Ser Asn Ser Ser Asp Phe Lys Gly Leu Leu Lys Pro Pro
      115      120      125
Ile Leu Gly Gln Thr Ile Leu Thr Gln Trp Met Met Phe Pro Leu Lys
      130      135      140
Ile Asp Asn Leu Val Lys Trp Trp Phe Pro Leu Gln Leu Pro Lys Trp
      145      150      155      160
Pro Tyr Pro Gln Ala Pro Ser Gly Pro Thr Phe Tyr Ser Lys Thr Phe
      165      170      175
Pro Ile Leu Gly Ser Val Gly Asp Thr Phe Leu Tyr Leu Pro Gly Trp
      180      185      190
Thr Lys Gly Gln Val Trp Ile Asn Gly Phe Asn Leu Gly Arg Tyr Trp
      195      200      205
Thr Lys Gln Gly Pro Gln Gln Thr Leu Tyr Val Pro Arg Phe Leu Leu
      210      215      220
Phe Pro Arg Gly Ala Leu Asn Lys Ile Thr Leu Leu Glu Leu Glu Asp
      225      230      235      240
Val Pro Leu Gln Pro Gln Val Gln Phe Leu Asp Lys Pro Ile Leu Asn
      245      250      255
Ser Thr Ser Thr Leu His Arg Thr His Ile Asn Ser Leu Ser Ala Asp
      260      265      270
Thr Leu Ser Ala Ser Glu Pro Met Glu Leu Ser Gly His *
      275      280      285

```

&lt;210&gt; 1040

<211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Met His Ala His Ser Ala Ser Leu Trp Val Ala Phe Phe Tyr Arg Ser  
 1 5 10 15  
 Pro Phe Leu Phe Phe Thr Thr Gly Pro Pro Pro Thr Ser Ser Ser  
 20 25 30  
 Pro Ala Gly Leu Pro Leu Leu Glu Ser Thr Val Asp Ala Ser Arg Pro  
 35 40 45  
 Asn Trp Leu Pro Leu Leu Leu Ser Pro Pro Leu Pro Phe Leu Ser Ile  
 50 55 60  
 Glu Cys Thr Leu Tyr Asn Phe Ser Gly Ile Val Ile Glu Asn Lys Ile  
 65 70 75 80  
 Phe Thr Ile Ile Thr Gly Phe Phe Gln Val Thr Ser Cys Arg Leu \*  
 85 90 95

<210> 1041  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1041  
 Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr  
 1 5 10 15  
 Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu  
 20 25 30  
 Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val  
 35 40 45  
 Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu \*  
 50 55 60 63

<210> 1042  
 <211> 415  
 <212> PRT  
 <213> Homo sapiens

<400> 1042  
 Met Asn Glu Thr Gly Val Ile Val Trp Tyr Leu Ala Leu Cys Leu Leu  
 1 5 10 15  
 Leu Ala Trp Leu Ile Val Gly Ala Ala Leu Phe Lys Gly Ile Lys Ser  
 20 25 30  
 Ser Gly Lys Val Val Tyr Phe Thr Ala Leu Phe Pro Tyr Val Val Leu  
 35 40 45  
 Leu Ile Leu Leu Val Arg Gly Ala Thr Leu Glu Gly Ala Ser Lys Gly  
 50 55 60  
 Ile Ser Tyr Tyr Ile Gly Ala Gln Ser Asn Phe Thr Lys Leu Lys Glu  
 65 70 75 80  
 Ala Glu Val Trp Lys Asp Ala Ala Thr Gln Ile Phe Tyr Ser Leu Ser  
 85 90 95  
 Val Ala Trp Gly Gly Leu Val Ala Leu Ser Ser Tyr Asn Lys Phe Lys

```

      100      105      110
Asn Asn Cys Phe Ser Asp Ala Ile Val Val Cys Leu Thr Asn Cys Leu
      115      120      125
Thr Ser Val Phe Ala Gly Phe Ala Ile Phe Ser Ile Leu Gly His Met
      130      135      140
Ala His Ile Ser Gly Lys Glu Val Ser Gln Val Val Lys Ser Gly Phe
      145      150      155      160
Asp Leu Ala Phe Ile Ala Tyr Pro Glu Ala Leu Ala Gln Leu Pro Gly
      165      170      175
Gly Pro Phe Trp Ser Ile Leu Phe Phe Phe Met Leu Leu Thr Leu Gly
      180      185      190
Leu Asp Ser Gln Phe Ala Ser Ile Glu Thr Ile Thr Thr Thr Ile Gln
      195      200      205
Asp Leu Phe Pro Lys Val Met Lys Lys Met Arg Val Pro Ile Thr Leu
      210      215      220
Gly Cys Cys Leu Val Leu Phe Leu Leu Gly Leu Val Cys Val Thr Gln
      225      230      235      240
Ala Gly Ile Tyr Trp Val His Leu Ile Asp His Phe Cys Ala Gly Trp
      245      250      255
Gly Ile Leu Ile Ala Ala Ile Leu Glu Leu Val Gly Ile Ile Trp Ile
      260      265      270
Tyr Gly Gly Asn Arg Phe Ile Glu Asp Thr Glu Met Met Ile Gly Ala
      275      280      285
Lys Arg Trp Ile Phe Trp Leu Trp Trp Arg Ala Cys Trp Phe Val Ile
      290      295      300
Thr Pro Ile Leu Leu Ile Ala Ile Phe Ile Trp Ser Leu Val Gln Phe
      305      310      315      320
His Arg Pro Asn Tyr Gly Ala Ile Pro Tyr Pro Asp Trp Gly Val Ala
      325      330      335
Leu Gly Trp Cys Met Ile Val Phe Cys Ile Ile Trp Ile Pro Ile Met
      340      345      350
Ala Ile Ile Lys Ile Ile Gln Ala Lys Gly Asn Ile Phe Gln Arg Leu
      355      360      365
Ile Ser Cys Cys Arg Pro Ala Ser Asn Trp Gly Pro Tyr Leu Glu Gln
      370      375      380
His Arg Gly Glu Arg Tyr Lys Asp Met Val Asp Pro Lys Lys Glu Ala
      385      390      395      400
Asp His Glu Ile Pro Thr Val Ser Gly Ser Arg Lys Pro Glu *
      405      410      414

```

&lt;210&gt; 1043

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

```

Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
  1          5          10          15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30
Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *
      35      40      45      47

```

&lt;210&gt; 1044

<211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 1044  
 Met Leu Phe Ser Ser Met Thr Leu Arg Leu Ser Arg Cys Ser Cys Ser  
 1 5 10 15  
 Ile Leu Leu Phe Trp Ala Ser Ala Ala Cys Met Phe Pro Ser Ser Arg  
 20 25 30  
 Tyr Leu Trp Ser Gly Arg Ser Leu Val Ser Val Glu Gly Ser Asp Arg  
 35 40 45  
 Phe Ser Ser Ala Val Ser Ser Phe Ser Ser Lys Ala Asn Trp Val Lys  
 50 55 60  
 Pro Lys Phe Arg Ser Trp Ser Gly Gly Ile Glu Leu Gly Phe Gln Met  
 65 70 75 80  
 His Trp Pro Pro Gly Val Gly Pro Arg Tyr Ser Pro Ser Cys His Phe  
 85 90 95  
 Pro Lys Ser Arg Trp Arg Thr Arg Pro Leu Arg Leu Ser Thr Ala Pro  
 100 105 110  
 Cys Thr Ser Trp Thr Leu Glu Leu Gln Tyr Leu Ala Leu Gln Lys Val  
 115 120 125  
 Ile Leu Gln Trp Gln Glu Leu Ser Cys Val Phe Arg Met Ser Thr Ser  
 130 135 140  
 Pro \*  
 145

<210> 1045  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1045  
 Met Ala Leu Phe Cys Leu Val Tyr Gln Ile Ile Phe Leu Ile Gln His  
 1 5 10 15  
 Thr His Phe Ser Leu Ala Lys Leu Leu Ile Met Ala Leu Asn Thr Leu  
 20 25 30  
 Thr Tyr Cys Val Leu Val Gln Ser Asn Asn Thr Gln Ser Thr Leu Arg  
 35 40 45  
 Lys Ser Ala Ser \*  
 50 52

<210> 1046  
 <211> 407  
 <212> PRT  
 <213> Homo sapiens

<400> 1046  
 Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser  
 1 5 10 15  
 Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg  
 20 25 30  
 Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser

```
<210> 1047
<211> 268
<212> PRT
<213> Homo sapiens
```

613

```

Tyr Leu Leu Phe Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu
      20      25      30
Asn Pro Cys Ala Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys
      35      40      45
Thr Val Pro Thr Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr
      50      55      60
Phe Leu Leu Asp Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu
      65      70      75      80
Met Leu Ser Ser Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val
      85      90      95
Thr Tyr Ile Ile Leu Thr Phe Val Leu Leu Asn Met Leu Ile Ala
      100      105      110
Leu Met Gly Glu Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile
      115      120      125
Trp Lys Leu Gln Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe
      130      135      140
Pro Val Phe Leu Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val
      145      150      155      160
Gly Lys Ser Ser Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val
      165      170      175
Asp Glu Val Asn Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn
      180      185      190
Glu Asp Pro Gly Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His
      195      200      205
Thr Val Gly Arg Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg
      210      215      220
Val Val Glu Leu Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro
      225      230      235      240
Leu Asp Ser Met Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr
      245      250      255
Pro Arg Lys Trp Arg Thr Asp Asp Ala Pro Leu *
      260      265      267

```

```

<210> 1048
<211> 59
<212> PRT
<213> Homo sapiens

```

```

<400> 1048
Met Trp Ser His Phe Trp Lys Val Ser Thr Gln Gly Leu Phe Val Ala
  1      5      10      15
Met Phe Trp Pro Leu Ile Pro Gln Phe Val Cys Asn Cys Leu Phe Tyr
      20      25      30
Trp Ala Leu Tyr Phe Asn Pro Ile Ile Asn Ile Asp Leu Val Val Lys
      35      40      45
Glu Leu Arg Arg Leu Glu Thr Gln Val Leu *
      50      55      58

```

```

<210> 1049
<211> 77
<212> PRT
<213> Homo sapiens

```



&lt;400&gt; 1049

```

Met Arg Cys Arg Cys Cys Leu Cys Ser Ser Cys Phe Trp Gly Leu Trp
 1          5          10          15
Asp Pro Cys Pro Lys Ser Val Trp Ser Pro Trp Ser Ser Ser Ser Leu
          20          25          30
Gly Ala Phe Ser Val Gly Ser Glu Leu Ala Ser Ala Ala Ser Ser Leu
          35          40          45
Ser Pro Pro Ser Cys Ser Pro Arg Thr Ala Pro Arg Ser Thr Ala Lys
          50          55          60
Leu Cys Leu Arg Trp Ser Arg Pro Gly Asn Cys Gly *
          65          70          75 76

```

&lt;210&gt; 1050

&lt;211&gt; 474

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1050

```

Met Arg Ala Leu Val Leu Leu Gly Cys Leu Leu Ala Ser Leu Leu Phe
 1          5          10          15
Ser Gly Gln Ala Glu Glu Thr Glu Asp Ala Asn Glu Glu Ala Pro Leu
          20          25          30
Arg Asp Arg Ser His Ile Glu Lys Thr Leu Met Leu Asn Glu Asp Lys
          35          40          45
Pro Ser Asp Asp Tyr Ser Ala Val Leu Gln Arg Leu Arg Lys Ile Tyr
          50          55          60
His Ser Ser Ile Lys Pro Leu Glu Gln Ser Tyr Lys Tyr Asn Glu Leu
          65          70          75          80
Arg Gln His Glu Ile Thr Asp Gly Glu Ile Thr Ser Lys Pro Met Val
          85          90          95
Leu Phe Leu Gly Pro Trp Ser Val Gly Lys Ser Thr Met Ile Asn Tyr
          100          105          110
Leu Leu Gly Leu Glu Asn Thr Arg Tyr Gln Leu Tyr Thr Gly Ala Glu
          115          120          125
Pro Thr Thr Ser Glu Phe Thr Val Leu Met His Gly Pro Lys Leu Lys
          130          135          140
Thr Ile Glu Gly Ile Val Met Ala Ala Asp Ser Ala Arg Ser Phe Ser
          145          150          155          160
Pro Leu Glu Lys Phe Gly Gln Asn Phe Leu Glu Lys Leu Ile Gly Ile
          165          170          175
Glu Val Pro His Lys Leu Leu Glu Arg Val Thr Phe Val Asp Thr Pro
          180          185          190
Gly Ile Ile Glu Asn Arg Lys Gln Gln Glu Arg Gly Tyr Pro Phe Asn
          195          200          205
Asp Val Cys Gln Trp Phe Ile Asp Arg Ala Asp Leu Ile Phe Val Val
          210          215          220
Phe Asp Pro Thr Lys Leu Asp Val Gly Leu Glu Leu Glu Met Leu Phe
          225          230          235          240
Arg Gln Leu Lys Gly Arg Glu Ser Gln Ile Arg Ile Ile Leu Asn Lys
          245          250          255
Ala Asp Asn Leu Ala Thr Gln Met Leu Met Arg Val Tyr Gly Ala Leu
          260          265          270
Phe Trp Ser Leu Ala Pro Leu Ile Asn Val Thr Glu Pro Pro Arg Val
          275          280          285
Tyr Val Ser Ser Phe Trp Pro Gln Glu Tyr Lys Pro Asp Thr His Gln
          290          295          300

```

```

Glu Leu Phe Leu Gln Glu Glu Ile Ser Leu Leu Glu Asp Leu Asn Gln
305          310          315          320
Val Ile Glu Asn Arg Leu Glu Asn Lys Ile Ala Phe Ile Arg Gln His
          325          330          335
Ala Ile Arg Val Arg Ile His Ala Leu Leu Val Asp Arg Tyr Leu Gln
          340          345          350
Thr Tyr Lys Asp Lys Met Thr Phe Phe Ser Asp Gly Glu Leu Val Phe
          355          360          365
Lys Asp Ile Val Glu Asp Pro Asp Lys Phe Tyr Ile Phe Lys Thr Ile
          370          375          380
Leu Ala Lys Thr Asn Val Ser Lys Phe Asp Leu Pro Asn Arg Glu Ala
385          390          395          400
Tyr Lys Asp Phe Phe Gly Ile Asn Pro Ile Ser Ser Phe Lys Leu Leu
          405          410          415
Ser Gln Gln Cys Ser Tyr Met Gly Gly Cys Phe Leu Glu Lys Ile Glu
          420          425          430
Arg Ala Ile Thr Gln Glu Leu Pro Gly Leu Leu Gly Ser Leu Gly Leu
          435          440          445
Gly Lys Asn Pro Gly Ala Leu Asn Cys Asp Lys Thr Gly Cys Ser Glu
450          455          460
Thr Pro Lys Asn Arg Tyr Arg Lys His *
465          470          473

```

```

<210> 1051
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1051
Met Gln Arg Pro Ser Ala Trp Trp Ile Leu Phe Cys Ser Leu Asn Leu
1          5          10          15
Leu Ala Arg Phe Ile Gln Cys Leu Gln Ile Val Asn Lys Glu Val His
          20          25          30
Phe Phe Arg Tyr Ile Lys Tyr Tyr Lys Phe Trp Glu Gly Arg *
          35          40          45 46

```

```

<210> 1052
<211> 233
<212> PRT
<213> Homo sapiens

```

```

<400> 1052
Met Ala Trp Thr Pro Leu Trp Leu Thr Leu Leu Thr Leu Cys Ile Gly
1          5          10          15
Ser Val Val Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala
          20          25          30
Leu Gly Gln Thr Leu Arg Ile Lys Cys Gln Gly Asp Thr Ile Arg Ser
          35          40          45
Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Ile Leu
          50          55          60
Val Ile Tyr Gly Gln Asn Asn Arg Pro Ser Gly Ile Pro Gly Arg Phe
65          70          75          80
Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu

```

```

      85      90      95
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Arg
      100      105      110
Thr Thr Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
      115      120      125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
      130      135      140
Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
      145      150      155
Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
      165      170      175
Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
      180      185      190
Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
      195      200      205
Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
      210      215      220
Thr Val Ala Pro Thr Glu Cys Ser *
      225      230      232

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<210> 1053
<211> 147
<212> PRT
<213> Homo sapiens

```

```

      <400> 1053
Met Gly Ala Asp Arg Gly Pro His Val Val Leu Trp Thr Leu Ile Cys
  1      5      10      15
Leu Pro Val Val Phe Ile Leu Ser Phe Val Val Ser Phe Tyr Tyr Gly
      20      25      30
Thr Ile Thr Trp Tyr Asn Ile Phe Leu Val Tyr Asn Glu Glu Arg Thr
      35      40      45
Phe Trp His Lys Ile Ser Tyr Cys Pro Cys Leu Val Leu Phe Tyr Pro
      50      55      60
Val Leu Ile Met Ala Met Ala Ser Ser Leu Gly Leu Tyr Ala Ala Val
      65      70      75      80
Val Gln Leu Ser Trp Ser Trp Glu Ala Trp Trp Gln Ala Ala Arg Asp
      85      90      95
Met Glu Lys Gly Phe Cys Gly Trp Leu Cys Ser Lys Leu Gly Leu Glu
      100      105      110
Asp Cys Ser Pro Tyr Ser Ile Val Glu Leu Leu Glu Ser Asp Asn Ile
      115      120      125
Ser Ser Thr Leu Ser Asn Lys Asp Pro Ile Gln Glu Val Glu Thr Ser
      130      135      140
Thr Val *
      145      146

```

```

<210> 1054
<211> 123
<212> PRT
<213> Homo sapiens

```

```

<400> 1054

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```

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1           5           10           15
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
          20           25           30
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
          35           40           45
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
          50           55           60
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Trp
 65           70           75           80
Glu Asp Leu Gly Gln Ala Pro Thr Met Asp Ser Pro Leu Glu Lys Asn
          85           90           95
Pro Arg Ser Ala Gly Arg Ile Arg His Arg His Gly Ser Pro His Pro
          100          105          110
Ser Arg Arg Thr Ala Pro Ala Val Ala Thr *
          115          120          122

```

```

<210> 1055
<211> 122
<212> PRT
<213> Homo sapiens

```

```

<400> 1055
Met Leu Thr Cys Leu Phe Ser Phe Gln Gly Cys Trp Arg Ala Arg Gly
 1           5           10           15
Trp Gln Arg Leu Cys Glu Gly Arg Arg Gly Trp Pro Gly Val Gly Gln
          20           25           30
Arg Thr Leu Lys Val Ser Glu Pro Ala Pro Leu Arg Val Gly Arg Ala
          35           40           45
Leu Pro Gln Ala Leu Leu Gly Ala Arg Pro His Cys Val Phe Pro Gly
          50           55           60
Gly Glu Val Leu Gly Val Glu Ala Ala Phe Gly Ser Ser Phe Ile Leu
 65           70           75           80
Ser Thr Phe Phe Leu His Gln Pro Leu Phe Phe Pro Gly Pro Lys Leu
          85           90           95
Arg Ala Thr Gln Tyr Leu Ile Ser Ser Asp Pro Thr His Leu Pro Ala
          100          105          110
Gly Arg Gly Pro Asn Ser Val Ser Met *
          115          120 121

```

```

<210> 1056
<211> 51
<212> PRT
<213> Homo sapiens

```

```

<400> 1056
Met Pro Thr Lys Leu Ser Ala Val Gly Ile Leu Val Gly Thr Leu Val
 1           5           10           15
Ala Ile Gly Ile Phe Leu Ile Leu Ile Phe Thr His Trp Thr Met Ser
          20           25           30
Arg Lys Lys Asp Pro Asp Gln Pro Ala Asp Ser Val Pro Leu Lys Ala
          35           40           45
Thr Val *

```

50

<210> 1057  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<400> 1057  
 Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro  
 1 5 10 15  
 Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser  
 20 25 30  
 Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser  
 35 40 45  
 Val Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 50 55 60  
 Arg Pro Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala  
 65 70 75 80  
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
 85 90 95  
 Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Arg Asp  
 100 105 110  
 Asn Trp Pro Pro Gly Ala Thr Phe Gly Gly Gly Thr Lys Val Glu Ile  
 115 120 125  
 Lys His Thr Thr Gly Glu Ile Val Leu Thr Gln Ala Pro Gly Thr Leu  
 130 135 140  
 Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln  
 145 150 155 160  
 Thr Ile Gly Ser Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys  
 165 170 175  
 Ala Pro Lys Leu Leu Ile Tyr Trp Phe Ile Gln Phe Ala Lys Arg Gly  
 180 185 190  
 Pro Ile Lys Val Gln Cys His Arg Val Arg Gly Gln Thr Ser Leu Ser  
 195 200 205  
 Pro Ser Ala Asp Trp Ser Leu Lys Ile Leu Gln Cys Ile Ser Val Thr  
 210 215 220  
 Asn Met Gly Ala His Pro Thr Leu Leu Ala Glu Gly Pro Arg Trp Arg  
 225 230 235 240  
 Ser Asn Glu Leu Trp Leu His His Leu Ser Ser Ser Ser Arg His Leu  
 245 250 255  
 Met Ser Ser \*  
 259

<210> 1058  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1058  
 Met Lys Gly Leu Phe Cys Leu Trp Pro Leu Val Arg Ser Val Ser Ser  
 1 5 10 15  
 Leu Met Thr Ser Ser Thr Ser Cys Pro Ser Pro Pro Thr Leu Pro Pro  
 20 25 30

Trp Arg Pro Cys Leu Pro Arg Leu Arg Met Arg Val Leu Val Leu Leu  
           35                          40                          45  
 Ile Trp Ser \*  
       50  51

<210> 1059  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 1059  
 Met Gly Arg Gly Ser Glu Leu Pro Val Cys Leu Ala Phe Leu Val Cys  
   1                          5                          10                          15  
 Leu Met Ala Ala Leu Gly Cys Cys Glu Val Leu Ser Thr Val His Pro  
           20                          25                          30  
 Glu Glu Thr Val Leu Arg Ala Pro Thr Asn Phe Gln Arg Cys Gln  
           35                          40                          45  
 Leu Gln Gln Gly Ser Ala Leu Val Arg Glu Thr Ala Trp Gly Val Gly  
           50                          55                          60  
 Arg Gly Arg Pro Ser Glu Arg Trp His Gly Glu Leu Ala Gly Gly Gly  
           65                          70                          75                          80  
 Ser Arg Arg Asp Gly Met Glu Gly Leu Gly Pro Val Leu Leu Gly Ala  
                           85                          90                          95  96  
 \*

<210> 1060  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1060  
 Met Asn Lys His Phe Leu Phe Leu Phe Leu Leu Tyr Cys Leu Ile Ala  
   1                          5                          10                          15  
 Ala Val Thr Ser Leu Gln Cys Ile Thr Cys His Leu Arg Thr Arg Thr  
           20                          25                          30  
 Asp Arg Cys Arg Arg Gly Phe Gly Val Cys Thr Ala Gln Lys Gly Glu  
           35                          40                          45  
 Ala Cys Met Leu Leu Arg Ile Tyr Gln Arg Asn Thr Leu Gln Ile Ser  
           50                          55                          60  
 Tyr Met Val Cys Gln Lys Phe Cys Arg Asp Met Thr Phe Asp Leu Arg  
           65                          70                          75                          80  
 Asn Arg Thr Tyr Val His Thr Cys Cys Asn Tyr Asn Tyr Cys Asn Phe  
                           85                          90                          95  
 Lys Leu \*  
       98

<210> 1061  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1061

```

Met Asn Val Val Ser Leu Val Ile Leu Phe Trp Ala Ile Tyr Cys Val
 1          5          10          15
Thr Ile Cys Met Asp Leu Tyr Leu Lys His Phe Cys Lys Lys Phe Phe
          20          25          30
Lys Val Phe Phe Lys Cys Val Ile Ile Cys Ala Phe Lys Ser Ile Leu
          35          40          45
His Phe Ser Leu Ile Cys Thr Phe Lys Lys Ile Phe Phe Phe Phe *.
 50          55          60          63

```

&lt;210&gt; 1062

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1062

```

Met Tyr Leu Ser Asn Thr Thr Val Thr Ile Leu Ala Asn Leu Val Pro
 1          5          10          15
Phe Thr Leu Thr Leu Ile Ser Phe Leu Leu Leu Ile Cys Ser Leu Cys
          20          25          30
Lys His Leu Lys Lys Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro
          35          40          45
Ser Met Lys Val His Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu
 50          55          60
Leu Leu Cys Ala Ile Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn
 65          70          75          80
Phe Gly Arg Leu Glu Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile
          85          90          95
Ile Phe Ser Tyr Pro Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn
          100          105          110
Lys Lys Leu Lys Gln Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr
          115          120          125
Trp Val Lys Asp Arg Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala
 130          135          140
Leu Cys Val Phe *
145          148

```

&lt;210&gt; 1063

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1063

```

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
 1          5          10          15
Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro
          20          25          30
Cys Ala Leu Trp His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg
          35          40          45
Glu Ala Ser Gln Ile Leu Pro Tyr His His Gln Gly Ser Cys *
 50          55          60          62

```

<210> 1064  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1064  
 Met Met Leu Met Ser Leu Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly  
 1 5 10 15  
 Phe Leu Arg Asp Glu Thr Gly Asp Phe Thr Ala Ser Phe Leu Leu Ser  
 20 25 30  
 Gly Ser Leu Ile Leu Ser Gly Ser Phe Ile Tyr Ile Gly Leu Pro Arg  
 35 40 45  
 Ala Leu Pro Ser Cys Gly Pro Ala Ser Pro Pro Ala Thr Pro Pro Pro  
 50 55 60  
 Glu Thr Gly Glu Leu Leu Pro Ala Pro Gln Ala Val Leu Leu Ser Pro  
 65 70 75 80  
 Gly Gly Pro Gly Ser Thr Leu Asp Thr Thr Cys \*  
 85 90 91

<210> 1065  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1065  
 Met Phe Leu Glu His Ala Ile His Cys Ser Leu Leu Phe Leu Ser Gln  
 1 5 10 15  
 Leu Pro Leu Leu Pro Pro Leu Val Phe Leu Leu Leu Ser His Leu Leu  
 20 25 30  
 Ser Glu Val Pro Leu Ile Gln Gln Pro Pro Ser Leu Ser Pro Tyr Pro  
 35 40 45  
 Asp Leu Leu Ser Pro Phe Ser Val Thr Arg Leu Pro Ser Asn Ile Leu  
 50 55 60  
 Cys Asn \*  
 65 66

<210> 1066  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 1066  
 Met Gly Gln Val Pro Cys Cys Trp Ala Trp Trp Ser Leu Leu Gln Gly  
 1 5 10 15  
 Arg Gly Ser Trp Cys Glu His Lys Glu Leu Arg Gly Trp Arg Arg Pro  
 20 25 30  
 Gly Pro Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro  
 35 40 45  
 Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro Asp Ser



50                      55                      60  
 Leu Ala Gly Trp Asp Leu Thr Gly Ala Pro Gly Ser Leu Gly  
 65                      70                      75                      78

<210> 1067  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1067  
 Met Tyr Phe Gly Ala Tyr Ala Phe Thr Val Ala Pro Arg Leu Ala Ile  
 1                      5                      10                      15  
 Leu Gln Val Val Asn Val Ile Ser Tyr Lys Asp Ile Arg His Phe Tyr  
                     20                      25                      30  
 Leu Arg His Trp Arg Asn Glu Arg Asn Cys Ile Cys His Val Asp Gly  
                     35                      40                      45  
 Ala Leu Ile Lys Glu Gln \*  
 50                      54

<210> 1068  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1068  
 Met His Val Cys Met Pro Leu Cys Leu Phe Leu Leu Ser Phe Ser Val  
 1                      5                      10                      15  
 Ser Pro Asp Pro Arg Leu Leu Arg Met Glu Arg Leu Phe Arg Gly Cys  
                     20                      25                      30  
 Ala Gln Asp Cys Pro Phe Leu Ala Leu His Gln Gly Glu Leu Trp \*  
                     35                      40                      45                      47

<210> 1069  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1069  
 Met Ser Asn Leu Gln Phe Ile Phe Lys Asp Phe Gly Ile Leu Ile Lys  
 1                      5                      10                      15  
 Phe Trp Tyr Leu His Ile Lys Phe Gly Phe Tyr Ile Thr Ser Cys Leu  
                     20                      25                      30  
 Leu Cys Phe Pro Pro Ser Phe Met Leu Phe Phe Gly Phe Trp Pro His  
                     35                      40                      45  
 Asp Tyr Asn Leu Arg Phe Cys Ile His Ile Thr Phe Cys His Phe \*  
 50                      55                      60                      63

<210> 1070

<211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1070  
 Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly  
 1 5 10 15  
 Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly  
 20 25 30  
 Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu  
 35 40 45  
 Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr  
 50 55 60  
 His Arg Gly Leu Ile Pro Tyr Val \*  
 65 70 72

<210> 1071  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 1071  
 Met Phe Trp Thr Met Ile Ile Leu Leu Gln Val Leu Ile Pro Ile Ser  
 1 5 10 15  
 Leu Tyr Val Ser Ile Glu Ile Val Lys Leu Gly Gln Ile Tyr Phe Ile  
 20 25 30  
 Gln Ser Asp Val Asp Phe Tyr Asn Glu Lys Met Asp Ser Ile Val Gln  
 35 40 45  
 Cys Arg Ala Leu Asn Ile Ala Glu Asp Leu Gly Gln Ile Gln Tyr Leu  
 50 55 60  
 Phe Ser Asp Lys Thr Gly Thr Leu Thr Glu Asn Lys Met Val Phe Arg  
 65 70 75 80  
 Arg Trp Ser Gly Gly Arg Phe Asp Tyr Cys Pro Gly Glu Lys Ala Arg  
 85 90 95  
 Arg Val Glu Ser Phe Gln Glu Ala Ala Phe Glu Glu Glu His Phe Leu  
 100 105 110  
 Thr Thr Gly Arg Gly Phe Leu Thr His Met Ala Asn Pro Arg Ala Pro  
 115 120 125  
 Pro Leu Ala Asp Thr Phe Lys Met Gly Ala Ser Gly Arg Leu Ser Pro  
 130 135 140  
 Pro Ser Leu Thr Ala Arg Gly Ala  
 145 150 152

<210> 1072  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1072  
 Met Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr  
 1 5 10 15  
 Gly Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu

```

          20          25          30
Ser Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln
          35          40          45
Glu Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro
          50          55          60
Val Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln
          65          70          75          80
Val Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu
          85          90          95
Leu Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
          100          105          110          112
*
```

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<210> 1073
<211> 52
<212> PRT
<213> Homo sapiens
```

```

<400> 1073
Met Thr Leu Cys Cys Pro Trp Ala Thr Met His Pro Ser Thr Val Leu
  1          5          10          15
Arg Met Val Trp Ser Leu Arg Ser Arg Ala Arg Arg Trp Gly Ser Val
          20          25          30
Arg Thr Gly Leu Ser Trp Ser Ser Ser Asp Ser Arg Ile Thr Ser
          35          40          45
Leu Ser Leu *
          50  51
```

```

<210> 1074
<211> 78
<212> PRT
<213> Homo sapiens
```

```

<400> 1074
Met Phe Ser Arg Leu Tyr Ala Val Cys Met Leu Tyr Met Trp Gly Phe
  1          5          10          15
Val Asp Lys Met Cys Val Trp Ser Val Met Gln Val Cys Tyr Cys Leu
          20          25          30
Val Phe Val Tyr Val Phe Leu Cys Met Val Cys Arg Val Arg Ala His
          35          40          45
Asp His Ile Gln Ile Leu Asp Pro Tyr Ser Arg Leu Val Leu Ser Arg
          50          55          60
Leu Pro Arg Leu Glu Thr Gly Lys Asp Ser Ser Ser Leu *
          65          70          75          77
```

```

<210> 1075
<211> 253
<212> PRT
<213> Homo sapiens
```

&lt;400&gt; 1075

```

Met Ser Ser Ser Pro Gly Leu Leu Phe Ser Ser Leu Ser His Leu Leu
 1      5      10      15
Leu Asn Ser Ser Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met
      20      25      30
Thr Cys Leu Gln Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val
      35      40      45
Gly Cys Cys His Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu
      50      55      60
Glu Leu Asp Leu Ser His Asn Gln Ile Gly Asp Ala Gly Asp Gln His
      65      70      75      80
Leu Ala Thr Ile Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu
      85      90      95
Ser Gly Asn Ser Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser
      100      105      110
Leu Val Leu Cys Arg Arg Leu Glu Glu Leu Met Leu Gly Cys Asn Ala
      115      120      125
Leu Gly Asp Pro Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His
      130      135      140
Leu Arg Val Leu His Leu Pro Phe Ser His Leu Gly Pro Asp Gly Ala
      145      150      155      160
Leu Ser Leu Ala Gln Asp Leu Asp Gly Ser Pro His Leu Glu Glu Ile
      165      170      175
Ser Leu Ala Glu Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met
      180      185      190
Glu Leu Pro Leu Leu Arg Gln Ile Glu Leu Ser Trp Asn Leu Leu Gly
      195      200      205
Asp Glu Ala Ala Ala Glu Leu Ala Gln Val Leu Pro Gln Met Gly Arg
      210      215      220
Leu Lys Arg Val Glu Tyr Glu Gly Pro Gly Glu Glu Trp Asp Gly Leu
      225      230      235      240
Lys Gly Asp Leu His Pro Gly Asn Thr Lys Arg Pro Leu
      245      250      253

```

&lt;210&gt; 1076

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1076

```

Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1      5      10      15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
      20      25      30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
      35      40      45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
      50      55      60      63

```

&lt;210&gt; 1077

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

```

Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
 1           5           10           15
Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro
           20           25           30
Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser
 35           40           45
Asp Arg Gly Ser Gln Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys
 50           55           60
Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp
 65           70           75           80
Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu
           85           90           95
Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
 100           105           110
Asp Tyr Ser Gly Asn Thr Pro Leu Val Phe Gly Lys Gly Thr Arg Leu
 115           120           125
Ser Val Ile Ala Asn Ile Gln Asn Pro Asp Pro Ala Leu Tyr Gln Leu
 130           135           140
Arg Asp Ser
145       147

```

&lt;210&gt; 1078

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1078

```

Met Phe Gln Gly Ser Asn Ile Leu Phe Leu Leu Pro Ser Pro Gly Ile
 1           5           10           15
Thr Ser Ile Asn Asp Arg Thr Tyr Phe Leu Phe Val Met Arg Ser Asn
           20           25           30
Trp Leu Phe Leu Leu Thr Cys Leu Ile Ala Phe Gln Lys Asn Asn Lys
 35           40           45
Ser Leu Lys Leu Leu Lys *
 50           54

```

&lt;210&gt; 1079

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1079

```

Met Ile Pro Ala Phe Gly Ile Phe Arg Leu Leu Ile Ile Ile Leu Ile
 1           5           10           15
Ile Val Leu Asp Met Gly Phe Ala Leu Tyr Arg Arg Phe Phe Val Pro
           20           25           30
Glu Asp Gly Ser Pro Val Ser Phe Ala Ala His Ile Ala Gly Gly Phe
 35           40           45
Ala Gly Met Ser Ile Gly Tyr Thr Val Phe Ser Cys Phe Asp Lys Ala
 50           55           60

```

Leu Met Lys Asp Pro Arg Phe Trp Ile Ala Ile Ala Ala Tyr Leu Ala  
 65 70 75 80  
 Cys Val Leu Phe Ala Val Phe Phe Asn Ile Phe Leu Ser Pro Ala Asn  
 85 90 95 96  
 \*

<210> 1080  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<400> 1080  
 Met Leu Ser Ile Leu Leu Ala Thr Leu Thr Leu Ser Leu Lys Glu Lys  
 1 5 10 15  
 Arg Gly Glu Arg Ser Ile His Gln Pro Glu Pro Ser Glu Lys Ser Val  
 20 25 30  
 Cys Leu Pro Val Ser Gly Ala Asp Pro Phe Arg Gly Ser Arg Gly Arg  
 35 40 45  
 Gly Lys Glu Ile Arg Arg Glu Lys Asp Ile Gly Leu Leu Glu His Val  
 50 55 60  
 Gly Gln Glu Val Pro Arg Arg Ile Cys Glu Gln Leu Pro Asp Ser Lys  
 65 70 75 80  
 Ala Leu Ala Arg Pro Gln Asp Gly Pro Cys Leu Leu Asp Ile Arg Lys  
 85 90 95  
 Pro Lys Gly Gln Asn Lys Asn Thr Cys Leu Val Gly Glu Gly Ser Leu  
 100 105 110  
 Arg Gly His Gln Val Gly Gln Ile Pro Leu Val Thr His Leu Trp Arg  
 115 120 125  
 Leu Pro Gln Lys Cys \*  
 130 133

<210> 1081  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 1081  
 Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile  
 1 5 10 15  
 Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn  
 20 25 30  
 Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr  
 35 40 45  
 Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe  
 50 55 60  
 Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala  
 65 70 75 80  
 Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn  
 85 90 95  
 Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser  
 100 105 110  
 Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys

```

      115              120              125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
      130              135              140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
145              150              155              160
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
      165              170              175
Ser Ile Cys Ala Asp Ile His Val *
      180              184

```

&lt;210&gt; 1082

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(285)

&lt;223&gt; Xaa = any amino acid or nothing

```

<400> 1082
Met Val Ile Ala Leu Ile Ile Phe Leu Arg Ser Pro Ala Met Ala Gly
 1              5              10              15
Gly Leu Phe Ala Ile Glu Arg Glu Phe Phe Glu Leu Gly Leu Tyr
      20              25              30
Asp Pro Gly Leu Gln Ile Trp Gly Gly Glu Asn Phe Glu Ile Ser Tyr
      35              40              45
Lys Ile Trp Gln Cys Gly Gly Lys Leu Leu Phe Xaa Pro Cys Ser Arg
 50              55              60
Val Gly His Ile Tyr Arg Leu Glu Gly Trp Gln Gly Asn Pro Pro Pro
65              70              75              80
Ile Tyr Val Gly Ser Ser Pro Thr Leu Lys Asn Tyr Val Arg Val Val
      85              90              95
Glu Val Trp Trp Asp Glu Tyr Lys Asp Tyr Phe Tyr Ala Ser Arg Pro
      100              105              110
Glu Ser Gln Ala Leu Pro Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe
      115              120              125
Arg Glu Asp His Asn Cys Lys Ser Phe Lys Trp Phe Met Glu Glu Ile
      130              135              140
Ala Tyr Asp Ile Thr Ser His Tyr Pro Leu Pro Pro Lys Asn Val Asp
145              150              155              160
Trp Gly Glu Ile Arg Gly Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met
      165              170              175
Gly Lys Thr Asn Gly Gly Phe Val Glu Leu Gly Pro Cys His Arg Met
      180              185              190
Gly Gly Asn Gln Leu Phe Arg Ile Asn Glu Ala Asn Gln Leu Met Gln
      195              200              205
Tyr Asp Gln Cys Leu Thr Lys Gly Ala Asp Gly Ser Lys Val Met Ile
      210              215              220
Thr His Cys Asn Leu Asn Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn
225              230              235              240
Leu His Arg Phe Thr His Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser
      245              250              255
Glu Val Leu His Gln Val Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr
      260              265              270
Thr Gln Lys Trp Glu Met Asn Asn Ile His Ser Val *
      275              280              284

```

<210> 1083  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1083  
 Met Phe Trp Phe Leu Asn Ile Phe Ile Leu Ile Leu Ser Lys His Ser  
 1 5 10 15  
 Ser Lys Ser Leu Ser Leu Gln Leu Pro Glu Val Leu Leu Leu Phe Leu  
 20 25 30  
 Cys Gln Phe Cys Leu Arg Leu His Pro Val Arg Gly Leu Arg Leu His  
 35 40 45  
 Phe Lys Ala Lys Leu Ala Asn His His Val Ile Cys Ile Gly Leu Gly  
 50 55 60  
 Phe Phe Leu Phe Val Ser Val Leu \*  
 65 70 72

<210> 1084  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1084  
 Met Ile Phe Gly Thr Asp Cys Cys Ala Leu Ser Lys Tyr Met Trp Ala  
 1 5 10 15  
 Phe Val Phe Phe Leu Ile Lys Ala Arg Trp Arg Glu Lys Asn Pro Cys  
 20 25 30  
 Phe Asp Asp Ser Leu Arg Pro Glu Gln Cys Leu Leu Asp Glu Gly Ser  
 35 40 45  
 Leu Glu Lys Arg Tyr Ser Met \*  
 50 55

<210> 1085  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1085  
 Met Gln Ile Phe Leu Leu Leu Tyr Ala Leu Gly Arg Phe Val Leu Leu  
 1 5 10 15  
 Val Thr Phe Ser Pro Leu Val Leu Ser Leu Ser Tyr Pro Val Leu Val  
 20 25 30  
 Ser Phe Tyr Leu Arg Tyr Pro Ser Val Leu Phe Val Phe Leu His Asn  
 35 40 45  
 Val Val Ser Leu Val Phe Gly Tyr Pro Leu Gln Asn Gln Gln Gly Leu  
 50 55 60  
 Ile His Pro \*  
 65 67



<210> 1086  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 1086  
 Met Cys Pro Phe Met Pro Pro Pro Gly Leu Leu Arg Leu Phe Gln Ile  
 1 5 10 15  
 Val Phe Trp Val Glu His Pro Gly Ser Val Asn Pro Phe Glu Arg Ser  
 20 25 30  
 Thr Ile Ile Gly Arg Ser Ala Lys Leu Lys Lys Asp Leu Lys Ser His  
 35 40 45  
 Trp Glu Pro Gly Gln Gln Ala Leu Gln Gln Gly Leu Leu \*  
 50 55 60 61

<210> 1087  
 <211> 294  
 <212> PRT  
 <213> Homo sapiens

<400> 1087  
 Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu  
 1 5 10 15  
 Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala  
 20 25 30  
 Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu  
 35 40 45  
 Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu  
 50 55 60  
 Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr  
 65 70 75 80  
 Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg  
 85 90 95  
 Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe  
 100 105 110  
 Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys  
 115 120 125  
 Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe  
 130 135 140  
 Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro  
 145 150 155 160  
 Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Gly Ala Asp Pro Ser  
 165 170 175  
 Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu  
 180 185 190  
 Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala  
 195 200 205  
 Gly Glu Leu Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu  
 210 215 220  
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala  
 225 230 235 240  
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro  
 245 250 255

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu  
                260                    265                    270

Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu  
                275                    280                    285

Gln Ala Asn Ser Thr \*  
                290                    293

```
<210> 1088
<211> 477
<212> PRT
<213> Homo sapiens
```

<400> 1088															
Met 1	Gln	Trp	Lys	Val 5	Thr	Leu	Thr	Ser	Arg 10	Trp	Gly	Leu	Leu	Arg 15	His
Cys	Gln	Val	Leu	Ala 20	Gly	Leu	Leu	His 25	Leu	Gly	Asn	Ile	Gln	Phe	Ala
Ala	Ser	Glu	Asp	Glu	Ala	Gln	Pro	Cys 40	Gln	Pro	Met	Asp 45	Asp	Ala	Lys
Tyr	Ser	Val	Arg	Thr	Ala	Ala	Ser	Leu	Leu	Gly	Leu	Pro 60	Glu	Asp	Val
Leu 65	Leu	Glu	Met	Val 70	Gln	Ile	Lys	Thr	Ile	Arg 75	Ala	Gly	Arg	Gln	Gln
Gln	Val	Phe	Arg	Lys 85	Pro	Cys	Ala	Arg	Ala 90	Glu	Cys	Asp	Thr	Arg	Arg
Asp	Cys	Leu	Ala 100	Lys	Leu	Ile	Tyr	Ala 105	Arg	Leu	Phe	Asp 110	Trp	Leu	Val
Ser	Val	Ile	Asn 115	Ser	Ser	Ile	Cys 120	Ala	Asp	Thr	Asp	Ser 125	Trp	Thr	Thr
Phe 130	Ile	Gly	Leu	Leu	Asp	Val	Tyr 135	Gly	Phe	Glu	Ser 140	Phe	Pro	Asp	Asn
Ser 145	Leu	Glu	Gln	Leu	Cys 150	Ile	Asn	Tyr	Ala 155	Asn	Glu	Lys	Leu	Gln	Gln
His	Phe	Val	Ala 165	His	Tyr	Leu	Arg	Ala 170	Gln	Gln	Glu	Glu	Tyr	Ala	Val
Glu	Gly	Leu	Glu 180	Trp	Ser	Phe	Ile 185	Asn	Tyr	Gln	Asp	Asn 190	Gln	Pro	Cys
Leu	Asp	Leu 195	Ile	Glu	Gly	Ser 200	Pro	Ile	Ser	Ile	Cys 205	Ser	Leu	Ile	Asn
Glu	Glu 210	Cys	Arg	Leu	Asn 215	Arg	Pro	Ser	Ser	Ala 220	Ala	Gln	Leu	Gln	Thr
Arg 225	Ile	Glu	Thr	Ala 230	Leu	Ala	Gly	Ser	Pro 235	Cys	Leu	Gly	His	Asn	Lys
Leu	Ser	Arg	Glu 245	Pro	Ser	Phe	Ile	Val 250	Val	His	Tyr	Ala 255	Gly	Pro	Val
Arg	Tyr	His 260	Thr	Ala	Gly	Leu	Val 265	Glu	Lys	Asn	Lys 270	Asp	Pro	Ile	Pro
Pro	Glu 275	Leu	Thr	Arg	Leu	Leu 280	Gln	Ser	Gln 285	Asp	Pro	Leu	Leu	Met	
Gly	Leu 290	Phe	Pro	Thr	Asn 295	Pro	Lys	Glu	Lys 300	Thr	Gln	Glu	Glu	Pro	Pro
Gly 305	Gln	Ser	Arg	Ala 310	Pro	Val	Leu	Thr 315	Val	Val	Ser	Lys	Phe	Lys	Ala
Ser	Leu	Glu	Gln 325	Leu	Gln	Val	Leu 330	His	Ser 335	Thr	Thr	Pro	His	Tyr	
Ile	Arg	Cys	Ile	Met	Pro	Asn	Ser	Gln	Gly	Gln	Ala	Gln	Thr	Phe	Leu

```

          340          345          350
Gln Glu Glu Val Leu Ser Gln Leu Glu Ala Cys Gly Leu Val Glu Thr
          355          360          365
Ile His Ile Ser Ala Ala Gly Phe Pro Ile Arg Val Ser His Arg Asn
          370          375          380
Phe Val Glu Arg Tyr Lys Leu Leu Arg Arg Leu His Pro Cys Thr Ser
          385          390          395          400
Ser Gly Pro Asp Ser Pro Tyr Pro Ala Lys Gly Leu Pro Glu Trp Cys
          405          410          415
Pro His Ser Glu Glu Ala Thr Leu Glu Pro Leu Ile Gln Asp Ile Leu
          420          425          430
His Thr Leu Pro Val Leu Thr Gln Ala Ala Ala Ile Thr Gly Asp Ser
          435          440          445
Ala Glu Ala Met Pro Ala Pro Met His Cys Gly Arg Thr Lys Val Phe
          450          455          460
Met Thr Asp Ser Met Leu Glu Leu Leu Glu Cys Gly Ala
          465          470          475          477

```

<210> 1089  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

```

          <400> 1089
Met Ala Ala Gly Val Ser Ser Val Leu Leu Leu Leu Phe Thr Leu Met
  1          5          10          15
Glu Ser Gly Leu Lys His Arg Val Trp Glu Ser Trp Gln Leu Phe Thr
          20          25          30
Ser Trp Leu Ala Phe Cys Ser Pro Ser Phe Ser Val Val Phe Thr Cys
          35          40          45
Ser Tyr Ser Leu Ser Ser Trp Gly Leu Lys Gly Ile Ser Ser Arg Thr
          50          55          60
Arg *
  65

```

<210> 1090  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

```

          <400> 1090
Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
  1          5          10          15
Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
          20          25          30
Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
          35          40          45
Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
          50          55          60
Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
          65          70          75          80
Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
          85          90          95

```

```

Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
      100      105      110
Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
      115      120      125
Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
      130      135      140
Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
145      150      155      160
Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
      165      170      175
Ser Glu Val Asp Asp Ala Glu Glu *
      180      184

```

```

<210> 1091
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1091
Met Leu Gly Gly Asn Phe Leu Met Phe Leu Pro Pro Leu Gln Arg Leu
 1      5      10      15
Cys Ser Asn Leu Leu Ser Tyr Val Ile Pro Asn Asp Phe Ser Val Met
      20      25      30
Ser Cys Phe Ile Lys Ala Ser Leu Asn Tyr Thr Leu Leu Ile *
      35      40      45 46

```

```

<210> 1092
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1092
Met Val Leu Trp Asn Leu Met Leu His Ser Leu Ser Ala Val Thr Tyr
 1      5      10      15
Pro Pro Asp Leu Val Ser Trp Asn Leu His Phe Lys Gln Asn Pro Asp
      20      25      30
His Ser Pro Leu Pro Gln Leu Thr Trp Glu Val Leu Pro *
      35      40      45

```

```

<210> 1093
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1093
Met Thr Val Ser Phe Cys Cys Cys Trp Ile Leu Ala Val Leu Pro Ser
 1      5      10      15
Pro Pro Leu Tyr Gln Asp Leu Val Gly Ser Lys Leu Glu Ile Gln Ala
      20      25      30
Ala Gly Asp Pro Met Pro Ala Ala Ser Arg Leu Phe His Glu Arg Gln

```

35                      40                      45  
 Ser Leu Pro Gly Ala Pro Ala Thr Ser Ala Ser Pro Ser Val Leu \*  
 50                      55                      60                      63

<210> 1094  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1094  
 Met His Phe Leu Ala Thr Phe Ala Leu Phe Phe Ile Phe Gly Val Phe  
 1                      5                      10                      15  
 Phe Leu Phe Ala Val Leu Thr Asn Leu Leu Leu Ala Glu Glu Val Asn  
 20                      25                      30  
 Ile Arg Gly Gly Asn Phe Leu Gly Ser Phe Leu Val His Thr Leu Phe  
 35                      40                      45  
 Leu Asp Gln Val Pro Gly Glu Ile Thr His Asp Ser His Leu Val Leu  
 50                      55                      60  
 Ala Ile Thr Ile Asn Thr Ala Ser Pro Lys Phe Ser Ser Ser Ile Phe  
 65                      70                      75                      80  
 Phe Tyr Gln Leu \*  
 84

<210> 1095  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1095  
 Met Ala Ser His Gly Glu Glu Asp Arg His Trp Leu Arg Ala Cys Thr  
 1                      5                      10                      15  
 Trp Ile Trp Ala Leu Ser Leu Thr Leu Ser Val Ser Ser Ser Val Gly  
 20                      25                      30  
 Trp Arg Arg Gly Gly Cys Arg Trp Leu Gly Arg Arg Asn Ala Thr Val  
 35                      40                      45  
 Pro Arg Asn Ser Pro His Gly Thr Ser Cys Leu His Cys Val Leu Asp  
 50                      55                      60  
 Ile Pro Ala Lys Cys Gly Arg Lys Arg Ser Gly Glu Gly Thr Phe Gln  
 65                      70                      75                      80  
 Ser Leu Leu Leu Phe Cys Thr Ala \*  
 85                      88

<210> 1096  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1096  
 Met Phe Val Ile Ala Phe Leu Ser Pro Leu Ser Leu Ile Phe Leu Ala  
 1                      5                      10                      15

```

Lys Phe Leu Lys Lys Ala Asp Thr Arg Asp Ser Arg Gln Ala Cys Leu
      20      25      30
Ala Ala Ser Leu Ala Leu Ala Leu Asn Gly Val Phe Thr Asn Thr Ile
      35      40      45
Lys Leu Ile Val Gly Arg Pro Arg Pro Asp Phe Phe Tyr Arg Cys Phe
      50      55      60
Pro Asp Gly Leu Ala His Ser Asp Leu Met Cys Thr Gly Asp Lys Asp
      65      70      75      80
Val Val Asn Glu Gly Arg Lys Ser Phe Pro Ser Gly His Ser Ser Phe
      85      90      95
Ala Phe Ala Gly Leu Ala Phe Ala Ser Phe Tyr Leu Ala Gly Lys Leu
      100      105      110
His Cys Phe Thr Pro Gln Gly Arg Gly Lys Ser Trp Arg Phe Cys Ala
      115      120      125
Phe Leu Ser Pro Leu Leu Phe Ala Ala Val Ile Ala Leu Ser Arg Thr
      130      135      140
Cys Asp Tyr Lys His His Trp Gln Gly Pro Phe Lys Trp *
145      150      155      157

```

```

<210> 1097
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1097
Met Ile Thr Thr Ser Leu Lys Ser Ser Ser Arg Leu Cys Cys Phe Arg
  1      5      10      15
Arg Ser Ile Phe Phe Thr Ala Thr Cys Phe Pro Val Cys Phe Ser Val
      20      25      30
Ala Met His Thr Met Pro Val Glu Pro Ser Pro Ile Leu Ile Lys Leu
      35      40      45
Ala Lys Tyr Ser Leu Gly Ser Pro Gly Leu Thr Thr Ser Cys Arg Ala
      50      55      60
Ala Arg Asn Cys Ser Trp Asp Thr Leu Glu Gly Cys Trp Ser Glu Glu
      65      70      75      80
Glu Pro Gln Leu Gly Gly Gly *
      85      87

```

```

<210> 1098
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1098
Met Met Ser Gly Trp Leu Leu Arg Ala Ala Ile Cys Arg Gly Leu Leu
  1      5      10      15
Ser Ser Glu Ser Leu Thr Phe Thr Ser Ala Pro His Ser Ile Ser Ile
      20      25      30
Ala Val Thr Cys Arg Asp Gly Asn Leu Gln Thr Gly Tyr Arg Pro Thr
      35      40      45
His Val Val Phe Leu Ser Thr Ala Arg *
      50      55      57

```

<210> 1099  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1099  
 Met Ala Ser Glu Pro Cys Trp Trp Ala Gly Met Leu Pro Cys Ala Cys  
 1 5 10 15  
 Ala Gly Leu Arg Arg Cys Ser His Ser Arg Phe Leu Gln Arg Gly His  
 20 25 30  
 Gly Leu His Ser Leu Met Gly Ser Leu Pro Ala Pro Ile Ser Pro Pro  
 35 40 45  
 Trp Thr His Pro Trp Gly Ile Ile Leu Pro Trp Pro Ile Arg Gly His  
 50 55 60  
 Pro Ser Val Pro Ile Arg Leu \*  
 65 70 71

<210> 1100  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1100  
 Met Ser Phe Phe Leu Ile Leu Gly Val Gly Ser Cys Leu Ser Tyr Ser  
 1 5 10 15  
 Leu Val Pro Leu Ile Ile Leu Ser Phe Cys His Phe Tyr Pro Glu Ser  
 20 25 30  
 Val Gly Cys Pro Asp Ala Pro Ser Pro Arg Val Arg Gly Arg Val  
 35 40 45 47

<210> 1101  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 1101  
 Met Arg Pro Leu Lys Pro Gly Ala Pro Leu Pro Ala Leu Phe Leu Leu  
 1 5 10 15  
 Ala Leu Ala Leu Ser Pro His Gly Ala His Gly Arg Pro Arg Gly Arg  
 20 25 30  
 Arg Gly Ala Arg Val Thr Asp Lys Glu Pro Lys Pro Leu Leu Phe Leu  
 35 40 45  
 Pro Ala Ala Gly Ala Gly Arg Thr Pro Ser Gly Ser Arg Ser Ala Glu  
 50 55 60  
 Ile Phe Pro Arg Asp Ser Asn Leu Lys Asp Lys Phe Ile Lys His Phe  
 65 70 75 80  
 Thr Gly Pro Val Thr Phe Ser Pro Glu Cys Ser Lys His Phe His Arg  
 85 90 95  
 Leu Tyr Tyr Asn Thr Arg Glu Cys Ser Thr Pro Ala Tyr Tyr Lys Arg  
 100 105 110

Cys Ala Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Leu Cys Ser Gln  
           115                          120                          125  
 Thr \*  
 129

<210> 1102  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 1102  
 Met Gln Phe Val Leu Leu Arg Thr Leu Ala Tyr Ile Pro Thr Pro Ile  
   1                          5                          10                          15  
 Tyr Phe Gly Ala Val Ile Asp Thr Thr Cys Met Leu Trp Gln Gln Glu  
                           20                          25                          30  
 Cys Gly Val Gln Gly Ser Cys Trp Glu Tyr Asn Val Thr Ser Phe Arg  
                           35                          40                          45  
 Phe Val Tyr Phe Gly Leu Ala Ala Val Leu Lys Tyr Val Gly Cys Ile  
                           50                          55                          60  
 Phe Ile Leu Leu Ala Trp Tyr Ser Ile Lys Asp Thr Glu Asp Glu Gln  
                           65                          70                          75                          80  
 Pro Arg Leu Arg Gln Lys Lys Ile Cys Leu Ser Thr Leu Ser Asp Thr  
                           85                          90                          95  
 Met Thr Gln Pro Asp Ser Ala Gly Val Val Ser Cys Pro Leu Phe Thr  
                           100                          105                          110  
 Pro Asp Gly Glu Ile His Lys Lys Thr Gly Leu Arg Lys Arg Asp Pro  
                           115                          120                          125  
 Gly Gly Thr Thr Glu Pro Thr Pro Gly Pro Leu Arg Lys Arg Pro Leu  
                           130                          135                          140  
 Cys Thr Leu Glu Ala Pro Arg Leu Pro Asn Lys Ala Pro Phe Thr Leu  
                           145                          150                          155                          160  
 Glu Leu Ala Leu Leu Arg Val Arg Leu \*  
                           165                          169

<210> 1103  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 1103  
 Met Leu Ile Ile Phe Asn Ala Val Trp Val Arg Cys Leu Lys Pro Lys  
   1                          5                          10                          15  
 Ile Pro Ala Arg Pro Thr Thr Asn Asp Thr Met Ile Ser Lys Thr Lys  
                           20                          25                          30  
 Gln His Thr Gln Tyr Thr Ser Tyr Ala Pro Ser Trp Pro Trp Leu Gly  
                           35                          40                          45  
 Pro Ala Ala Cys Gln His Gly Pro Leu Ile Ser His Thr Pro  
                           50                          55                          60                          62

<210> 1104  
 <211> 83



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1104

```

Met Lys Gln Leu Ser Pro Leu Pro Leu Pro Trp Val Leu Cys Phe Leu
 1          5          10          15
Trp Lys Pro Ser Lys Leu Ser Val Leu Ser Phe Ala Ser Pro Pro Ser
          20          25          30
Thr Lys Pro Ser Gln Gln Ala Gly Leu Val Cys Ser Leu Ile Arg Val
          35          40          45
Ser Thr Ser Ser Thr Pro Ala Cys Thr Phe Tyr Leu Pro Val Asn Ala
          50          55          60
Lys Cys Arg Ser Cys Pro Leu Asn Asn Pro Pro Trp Glu Val Pro Trp
 65          70          75          80
Ile Asn *
      82

```

&lt;210&gt; 1105

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1105

```

Met Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr His Tyr Trp
 1          5          10          15
Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Leu Phe Tyr Val
          20          25          30
Val Phe Ser Leu Leu Trp Gly Gly Val Ile Trp Pro Phe Leu Asn Tyr
          35          40          45
Gln Arg Met Tyr Tyr Val Phe Ile Gln Met Leu Ser Ser Gly Pro Ala
          50          55          60
Trp Leu Ala Ile Val Leu Leu Val Thr Ile Ser Leu Leu Pro Asp Val
          65          70          75          80
Leu Lys Lys Val Leu Cys Arg Gln Leu Trp Pro Thr Ala Thr Glu Arg
          85          90          95
Val Gln Thr Lys Ser Gln Cys Leu Ser Val Glu Gln Ser Thr Ile Phe
          100          105          110
Met Leu Ser Gln Thr Ser Ser Ser Leu Ser Phe *
          115          120          123

```

&lt;210&gt; 1106

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1106

```

Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu
 1          5          10          15
Val Gln Gln Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu
          20          25          30
Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser
          35          40          45

```

```

Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile
  50          55          60
Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly
  65          70          75          80
His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu
          85          90          95
Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg
          100          105          110
Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp
          115          120          125
Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp Pro Gly Tyr Tyr
          130          135          140
Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser His Pro Ala
          145          150          155          160
Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
          165          170          175
Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
          180          185          190
Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
          195          200          205
Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
          210          215          220
Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
          225          230          235          240
Gly Ala Asn Gly Ala Gln Pro *
          245          247

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```

<210> 1107
<211> 121
<212> PRT
<213> Homo sapiens

```

```

<400> 1107
Met Met Leu Ala Phe Thr Met Trp Asn Pro Trp Ile Ala Met Cys Leu
  1          5          10          15
Leu Gly Leu Ser Tyr Ser Leu Leu Ala Cys Ala Leu Trp Pro Met Val
          20          25          30
Ala Phe Val Val Pro Glu His Gln Leu Gly Thr Ala Tyr Gly Phe Met
          35          40          45
Gln Ser Ile Gln Asn Leu Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly
          50          55          60
Met Ile Leu Asp Ser Arg Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile
          65          70          75          80
Ala Cys Val Ser Leu Ser Leu Leu Ser Val Val Leu Leu Tyr Leu Val
          85          90          95
Asn Arg Ala Gln Gly Gly Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu
          100          105          110
Glu Ile Lys Phe Ser His Thr Glu *
          115          120

```

```

<210> 1108
<211> 53
<212> PRT
<213> Homo sapiens

```

<400> 1108  
 Met Phe Lys Asn Thr Ser Gly Tyr Thr Glu Arg Val Ala Val Trp Leu  
 1 5 10 15  
 Gly Val Glu Ile Phe Cys Leu Leu Met Met Ser Ser Val Leu Val Pro  
 20 25 30  
 Leu Phe Tyr Phe Leu Met Leu Phe Gly Asn Phe Leu Gln Asn Leu Ser  
 35 40 45  
 Leu Gly Ser Arg \*  
 50 52

<210> 1109  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 1109  
 Met His Val Val Ile Val Leu Lys Ala Leu Val Ala Val Gln Ile Leu  
 1 5 10 15  
 Leu Ser Ile Lys Glu Tyr Thr Leu Glu Arg Asn His Met His Val Ile  
 20 25 30  
 Ser Val Ile Lys Val Leu Val Lys Ala Gln Thr Ser Leu Asn Ile Arg  
 35 40 45  
 Glu Tyr Thr Leu Val Lys Ser Leu Ile Ile Ala Ile Val Val Arg Lys  
 50 55 60  
 Pro Ser Val Arg Val Leu Thr Leu Phe Phe Ile Arg Glu Phe Thr Leu  
 65 70 75 80  
 Glu Lys Asn Tyr Tyr Leu Cys Thr Gln Cys Ser Lys Ser Phe Ser Gln  
 85 90 95  
 Ile Ser Asp Leu Ile Lys His Gln Arg Ile His Thr Gly Glu Lys Pro  
 100 105 110  
 Tyr Lys Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln Cys Ser Ala Leu  
 115 120 125  
 Thr Leu His Gln Arg Ile His Thr Gly Lys Lys Pro Asn Pro Cys Asp  
 130 135 140  
 Glu Cys Gly Lys Ser Phe Ser Arg Arg Ser Asp Leu Ile Asn His Gln  
 145 150 155 160  
 Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Lys  
 165 170 175  
 Ala Phe Ser Thr Cys Thr Asp Leu Ile Glu His Gln Lys Thr His Ala  
 180 185 190  
 Glu Glu Lys Pro Tyr Gln Cys Val Gln Cys Ser Arg Ser Cys Ser Gln  
 195 200 205  
 Leu Ser Glu Leu Thr Ile His Glu Glu Val His Cys Gly Glu Asp Ser  
 210 215 220  
 Gln Asn Val Met Asn Val Arg Lys Pro Leu Val Cys Thr Pro Thr Leu  
 225 230 235 240  
 Phe Ser Thr Arg Asp Thr Val Pro Glu Lys Asn Leu Met Asn Ala Val  
 245 250 255  
 Asp Tyr \*  
 258

<210> 1110

<211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1110  
 Met Thr Cys Ser Leu Leu Ser Leu Leu Asp Ala Val Cys Ser Ser Phe  
 1 5 10 15  
 Val Gln Ala Phe Cys Ser Arg Asp Pro Glu Arg Trp Pro Ala Ile Ser  
 20 25 30  
 Pro His Ser Leu Ser Gly Ala Phe Tyr Phe Leu Asn Val Cys \*  
 35 40 45 46

<210> 1111  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1111  
 Met Ser Leu Arg Ala Pro Ser Val Arg Ile Phe Val Tyr Leu Leu Phe  
 1 5 10 15  
 Arg Leu His Thr Gln Arg Gly Leu Leu Ala Gly Arg Arg Gln Trp Gly  
 20 25 30  
 Pro Cys Pro Leu Ser Phe Ser His Phe Leu His Leu Ser Val Leu Ser  
 35 40 45  
 Cys Ser Thr Gln Ile Tyr Thr Glu Gly Ser Trp Pro Gly Trp Ala Ser  
 50 55 60  
 Leu Gly Ala Pro Ser Val His Trp Ala Arg Phe Pro Cys Trp Leu Gln  
 65 70 75 80  
 Ala Met Gly Ser Phe Ser Pro Leu Cys Pro Ser Cys \*  
 85 90 92

<210> 1112  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 1112  
 Met Met Pro Thr Asn Leu Ala His Leu Val Phe Trp Gln Ala Leu Leu  
 1 5 10 15  
 Ala Ser Gly Arg Phe Ser Leu Met Glu His Tyr Pro Pro Asn Val Gln  
 20 25 30  
 Ser Asn Arg Gly Ile Thr His Tyr Met Leu Pro Arg Gly Tyr Ile Leu  
 35 40 45  
 Gly Leu Leu Tyr Ser Ser Ala Gly Asn Thr Gly Thr Ser Arg Pro Arg  
 50 55 60  
 Arg Thr His Tyr Gly Thr \*  
 65 70

<210> 1113  
 <211> 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1113

```

Met Tyr Leu Val Lys Gly Leu Leu Ile Gly Leu His Ser Ile Leu Leu
 1           5           10           15
Cys Leu Arg Glu Gln Gly Gly Leu Arg Arg Val Glu Arg Asp Glu Gly
           20           25           30
Thr Ala Ser Trp Tyr Ser Ser Gln Asn Thr Tyr Asn Ile Tyr *
           35           40           45 46

```

&lt;210&gt; 1114

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1114

```

Met Thr Val Leu Ser Phe Gln Tyr Glu Tyr Leu Ile Phe Leu Leu Thr
 1           5           10           15
Ser Leu Thr Thr Ile Tyr Asn Thr Thr Leu Ser Arg Ser Gly Asp Gly
           20           25           30
Arg Arg Thr Cys Leu Val Phe Asn Leu Arg Glu Lys Val Phe Cys Phe
           35           40           45
Ser Thr Leu Gly Ile Ile *
           50           54

```

&lt;210&gt; 1115

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1115

```

Met Asn Val Ile Cys Leu Thr Leu Cys Leu Val Ser Ser Lys Cys Ser
 1           5           10           15
Val Gly Gly Thr Ala Ser Phe Val Leu Leu Cys Phe Ser Leu Pro Val
           20           25           30
Ser Ser Arg Arg Arg Ala Phe Gln Glu Ser Gln Gly Trp Thr Glu Pro
           35           40           45
Arg Gly Gly Pro Ser Gly Leu Pro His Thr Glu Pro Gly Phe Met Ala
           50           55           60
Ser Ala Ala Thr Arg Gly Leu Ser Gly Cys Gly Ser Gln Ala Ala Val
           65           70           75           80
Leu Thr *
           82

```

&lt;210&gt; 1116

&lt;211&gt; 145

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 1116  
 Met Val Leu Leu Val Val Gly Asn Leu Val Asn Trp Ser Phe Ala Leu  
 1 5 10 15  
 Phe Gly Leu Ile Tyr Arg Pro Arg Asp Phe Ala Ser Tyr Met Leu Gly  
 20 25 30  
 Ile Phe Ile Cys Asn Leu Leu Leu Tyr Leu Ala Phe Tyr Ile Ile Met  
 35 40 45  
 Lys Leu Arg Ser Ser Glu Lys Val Leu Pro Val Pro Leu Phe Cys Ile  
 50 55 60  
 Val Ala Thr Ala Val Met Trp Ala Ala Ala Leu Tyr Phe Phe Phe Gln  
 65 70 75 80  
 Asn Leu Ser Ser Trp Glu Gly Thr Pro Ala Glu Ser Arg Glu Lys Asn  
 85 90 95  
 Arg Glu Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His  
 100 105 110  
 Phe Leu Ser Ala Thr Ala Leu Phe Phe Ser Phe Leu Asp Leu Leu Thr  
 115 120 125  
 Leu Asp Asp Asp Leu Asp Val Arg Arg Asp Gln Ile Pro Val Phe  
 130 135 140 144  
 \*

<210> 1117  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 1117  
 Met Gly Asp Phe Ala Gly Val Asp Phe Val Phe Leu Val Val Cys Phe  
 1 5 10 15  
 Ala Gln Arg Gln Gly Ala Ala Glu Ala Val Gly Ala Val Leu Ala Val  
 20 25 30  
 Leu Leu Cys Asp Thr Leu Leu Gly Val Thr Arg Leu Glu Gly Val Ile  
 35 40 45  
 His Leu Pro Leu Tyr Phe Gly Leu Ser Gly Ile Glu Val Ile Gln Gln  
 50 55 60  
 Ala His Asn Arg Gly Ser Ser Arg Phe Gln Leu Leu Ile Arg Trp Arg  
 65 70 75 80  
 Glu Asp Glu Asp Arg Trp Cys Ser His Ser Ser Phe Asp Val His Leu  
 85 90 95  
 Gly Pro Leu Ala Glu Arg Pro His Val Ser Thr Gln Leu Leu Thr Val  
 100 105 110  
 Ile Ser Cys Lys Ile Phe Arg Leu Gln Ala Thr Asp Cys Glu Ser Lys  
 115 120 125  
 Phe Cys Pro Arg Ser Ser Ala Ala Glu Pro \*  
 130 135 138

<210> 1118  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 1118  
 Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala  
 1 5 10 15  
 Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg  
 20 25 30  
 Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp  
 35 40 45  
 Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro  
 50 55 60  
 His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln  
 65 70 75 80  
 Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys  
 85 90 95  
 Ala Glu Gly Thr Val Glu Leu Lys Arg Pro Gly Gln Ser His Ala Ala  
 100 105 110  
 Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr  
 115 120 125  
 Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro  
 130 135 140  
 His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg  
 145 150 155 160  
 Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His  
 165 170 175  
 Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro  
 180 185 190  
 Asp \*  
 193

<210> 1119  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 1119  
 Met Leu Val Leu Leu Pro Arg Ser Lys Ala Met Pro Leu Leu Ser Val  
 1 5 10 15  
 Asn Val Thr Leu Ala Phe Phe Pro Arg Asn Lys Glu Ile Val Lys Tyr  
 20 25 30  
 Leu Leu Asn Gln Gly Ala Asp Val Thr Leu Arg Ala Lys Asn Gly Tyr  
 35 40 45  
 Thr Ala Phe Asp Leu Val Met Leu Leu Asn Asp Pro Asp Ile Phe Gly  
 50 55 60  
 Gly Glu Leu Ile Gly Phe Leu Ser Val Val Thr Glu Leu Val Arg Leu  
 65 70 75 80  
 Leu Ala Ser Val Phe Met Gln Val Asn Lys Asp Ile Gly Arg Arg Ser  
 85 90 95  
 His Gln Leu Pro Leu Pro His Ser Lys Val Pro Thr Ala Leu Glu His  
 100 105 110  
 Pro Ser Ala Ala Arg \*  
 115 117

<210> 1120  
 <211> 842  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1120

Met	Leu	Trp	Gly	Ser	Gly	Lys	Cys	Lys	Ala	Leu	Thr	Lys	Phe	Lys	Phe
1				5					10					15	
Val	Phe	Phe	Leu	Arg	Leu	Ser	Arg	Ala	Gln	Gly	Gly	Leu	Phe	Glu	Thr
			20					25					30		
Leu	Cys	Asp	Gln	Leu	Leu	Asp	Ile	Pro	Gly	Thr	Ile	Arg	Lys	Gln	Thr
		35					40					45			
Phe	Met	Ala	Met	Leu	Leu	Lys	Leu	Arg	Gln	Arg	Val	Leu	Phe	Leu	Leu
	50					55					60				
Asp	Gly	Tyr	Asn	Glu	Phe	Lys	Pro	Gln	Asn	Cys	Pro	Glu	Ile	Glu	Ala
65				70					75					80	
Leu	Ile	Lys	Glu	Asn	His	Arg	Phe	Lys	Asn	Met	Val	Ile	Val	Thr	Thr
				85					90					95	
Thr	Thr	Glu	Cys	Leu	Arg	His	Ile	Arg	Gln	Phe	Gly	Ala	Leu	Thr	Ala
			100					105					110		
Glu	Val	Gly	Asp	Met	Thr	Glu	Asp	Ser	Ala	Gln	Ala	Leu	Ile	Arg	Glu
		115					120					125			
Val	Leu	Ile	Lys	Glu	Leu	Ala	Glu	Gly	Leu	Leu	Leu	Gln	Ile	Gln	Lys
	130					135					140				
Ser	Arg	Cys	Leu	Arg	Asn	Leu	Met	Lys	Thr	Pro	Leu	Phe	Val	Val	Ile
145					150					155					160
Thr	Cys	Ala	Ile	Gln	Met	Gly	Glu	Ser	Glu	Phe	His	Ser	His	Thr	Gln
				165					170					175	
Thr	Thr	Leu	Phe	His	Thr	Phe	Tyr	Asp	Leu	Leu	Ile	Gln	Lys	Asn	Lys
			180					185					190		
His	Lys	His	Lys	Gly	Val	Ala	Ala	Ser	Asp	Phe	Ile	Arg	Ser	Leu	Asp
	195					200						205			
His	Cys	Gly	Tyr	Leu	Ala	Leu	Glu	Gly	Val	Phe	Ser	His	Lys	Phe	Asp
	210					215					220				
Phe	Glu	Leu	Gln	Asp	Val	Ser	Ser	Val	Asn	Glu	Asp	Val	Leu	Leu	Thr
225				230						235					240
Thr	Gly	Leu	Leu	Cys	Lys	Tyr	Thr	Ala	Gln	Arg	Phe	Lys	Pro	Lys	Tyr
				245					250					255	
Lys	Phe	Phe	His	Lys	Ser	Phe	Gln	Glu	Tyr	Thr	Ala	Gly	Arg	Arg	Leu
			260					265					270		
Ser	Ser	Leu	Thr	Ser	His	Glu	Pro	Glu	Glu	Val	Thr	Lys	Gly	Asn	
		275				280					285				
Gly	Tyr	Leu	Gln	Lys	Met	Val	Ser	Ile	Ser	Asp	Ile	Thr	Ser	Thr	Tyr
	290					295					300				
Ser	Ser	Leu	Leu	Arg	Tyr	Thr	Cys	Gly	Ser	Ser	Val	Glu	Ala	Thr	Arg
305				310						315					320
Ala	Val	Met	Lys	His	Leu	Ala	Ala	Val	Tyr	Gln	His	Gly	Cys	Leu	Leu
				325					330					335	
Gly	Leu	Ser	Ile	Ala	Lys	Arg	Pro	Leu	Trp	Arg	Gln	Glu	Ser	Leu	Gln
			340					345					350		
Ser	Val	Lys	Asn	Thr	Thr	Glu	Gln	Glu	Ile	Leu	Lys	Ala	Ile	Asn	Ile
		355					360					365			
Asn	Ser	Phe	Val	Glu	Cys	Gly	Ile	His	Leu	Tyr	Gln	Glu	Ser	Thr	Ser
	370					375					380				
Lys	Ser	Ala	Leu	Ser	Gln	Glu	Phe	Glu	Ala	Phe	Phe	Gln	Gly	Lys	Ser
385					390					395					400
Leu	Tyr	Ile	Asn	Ser	Gly	Asn	Ile	Pro	Asp	Tyr	Leu	Phe	Asp	Phe	Phe
				405					410					415	
Glu	His	Leu	Pro	Asn	Cys	Ala	Ser	Ala	Leu	Asp	Phe	Ile	Lys	Leu	Gly
			420					425					430		
Phe	Tyr	Gly	Gly	Ala	Met	Ala	Ser	Trp	Glu	Lys	Ala	Ala	Glu	Asp	Thr



```
<210> 1121
<211> 90
<212> PRT
<213> Homo sapiens
```

<400> 1121  
 Met Gly Leu Phe Phe Phe Ser Gly Val Gly Ser Phe Val Gly Ser  
 1 5 10 15  
 Gly Leu Leu Ala Leu Val Ser Ile Lys Ala Ile Gly Trp Met Ser Ser  
 20 25 30  
 His Thr Asp Phe Gly Asn Ile Asn Gly Cys Tyr Leu Asn Tyr Tyr Phe  
 35 40 45  
 Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr Leu Leu Leu Phe Leu Ile  
 50 55 60  
 Ile Ser Val Lys Tyr Asp His His Arg Asp His Gln Arg Ser Arg Ala  
 65 70 75 80  
 Asn Gly Val Pro Thr Ser Arg Arg Ala \*  
 85 89

<210> 1122  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 1122  
 Met Phe Leu Leu Phe Trp Phe Ile Leu Ser Glu Gly Cys Pro Leu Leu  
 1 5 10 15  
 Glu Gln Leu Asn Ile Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile  
 20 25 30  
 Gln Ala Leu Val Arg Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys  
 35 40 45  
 Gly Cys Thr Gln Leu Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His  
 50 55 60  
 Cys Pro Glu Leu Val Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr  
 65 70 75 80  
 Asp Glu Gly Leu Ile Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser  
 85 90 95  
 Leu Cys Ala Ser Gly Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala  
 100 105 110  
 Leu Ser Gln Asn Cys Pro Arg Leu Ile Ile Leu Glu Val Ala Arg Cys  
 115 120 125  
 Ser  
 129

<210> 1123  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 1123  
 Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu Leu  
 1 5 10 15  
 Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu  
 20 25 30  
 Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu  
 35 40 45  
 Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala

```

      50      55      60
Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
65      70      75      80
Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
      85      90      95
Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
      100      105      110
Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
      115      120      125
Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
      130      135      140
Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
145      150      155      160
Leu Met Asn Pro Met Val Met Met Met Val Leu Pro Leu Leu Ile Phe
      165      170      175
Val Leu Leu Pro Lys Val Val Asn Thr Ser Asp Pro Asp Met Arg Arg
      180      185      190
Glu Met Glu Gln Ser Met Asn Met Leu Asn Ser Asn His Glu Leu Pro
      195      200      205
Asp Val Ser Glu Phe Met Thr Arg Leu Phe Ser Ser Lys Ser Ser Gly
      210      215      220
Lys Ser Ser Ser Gly Ser Ser Lys Thr Gly Lys Ser Gly Ala Gly Lys
225      230      235      240
Arg Arg *
      242

```

```

<210> 1124
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 1124
Met Leu Ser Tyr Ala His Ile Thr Leu Ala Val Leu Arg Ile Pro Ser
1      5      10      15
Ala Thr Gly Cys Trp Arg Ala Phe Phe Thr Cys Ala Ser His Leu Thr
      20      25      30
Val Val Thr Val Phe Tyr Thr Ala Leu Leu Phe Met Tyr Val Arg Pro
      35      40      45
Gln Ala Ile Asp Ser Arg Ser Ser Asn Lys Leu Ile Ser Val Leu Tyr
      50      55      60
Thr Val Ile Thr Pro Ser Val
65      70      71

```

```

<210> 1125
<211> 48
<212> PRT
<213> Homo sapiens

```

```

      <400> 1125
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
1      5      10      15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30

```

Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser \*  
           35                          40                          45          47

<210> 1126  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1126  
 Met Phe Leu Ile Val Leu Pro Leu Glu Ser Met Ala His Gly Leu Phe  
   1                          5                          10                          15  
 His Glu Leu Gly Asn Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile  
                           20                          25                          30  
 Val Ile Pro Thr Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu  
                           35                          40                          45  
 Pro Pro Glu His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu  
                           50                          55                          60  
 Asn Ala Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly  
   65                          70                          75                          80  
 Cys Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys  
                           85                          90                          95  
 Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His Asp  
                           100                          105                          110  
 Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly Glu Trp  
                           115                          120                          125  
 Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu Ile Glu Trp  
   130                          135                          140  
 Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Pro Pro Tyr Tyr Arg  
 145                          150                          155                          159

<210> 1127  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1127  
 Met Thr Gly Pro Arg Pro Met Ile Leu His Phe Ile Leu Val Ala Ser  
   1                          5                          10                          15  
 Ala Ser Cys Trp Glu Val Leu Phe Cys Cys Trp Gln Pro Cys Pro Leu  
                           20                          25                          30  
 Gly Ile His Ala Thr Ser Asn Ser Pro Ser Gln Leu Gln Gln Leu Ser  
                           35                          40                          45  
 Cys Thr Lys Leu Pro Leu Met Phe Arg Arg Ile Leu Glu Asp Thr Ile  
                           50                          55                          60  
 Phe Ala Ile Leu Tyr His Ile Ala Thr Ile Phe \*  
   65                          70                          75

<210> 1128  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1128

```

Met Gly Ala Gly Leu Ala Val Val Pro Leu Met Gly Leu Leu Glu Ser
 1           5           10           15
Ile Ala Val Ala Lys Ala Phe Ala Ser Gln Asn Asn Tyr Arg Ile Asp
           20           25           30
Ala Asn Gln Glu Leu Leu Ala Ile Gly Leu Thr Asn Met Leu Gly Ser
           35           40           45
Leu Val Ser Ser Tyr Pro Val Thr Gly Ser Phe Gly Arg Thr Ala Val
           50           55           60
Asn Ala Gln Ser Gly Val Cys Thr Pro Ala Glu Gly Leu Val Thr Glu
65           70           75           80
Val Leu Val Leu Leu Ser Leu Asp Tyr Leu Thr Ser Leu Phe Tyr Tyr
           85           90           95
Ile Pro Lys Ser Ala Leu Ala Ala Val Ile Ile Met Ala Val Ala Pro
           100          105          110
Leu Phe Asp Thr Lys Ile Phe Arg Thr Leu Trp Arg Val Lys Arg Leu
           115          120          125
Asp Leu Leu Ser Leu Ser Val Thr Phe Leu Leu Cys
130           135           140

```

&lt;210&gt; 1129

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

```

Met Ala Glu Ala Phe Pro Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly
 1           5           10           15
Val Phe Leu Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ser Ser
           20           25           30
Leu Gln Ala Thr Thr Ala His Gln Ile Gly Val Ser Asp Val Leu Leu
           35           40           45
Val Ala Ala Asn Thr Ser Gly Gly Val Thr Gly Lys Met Ile Ser Pro
           50           55           60
Gln Ser Ile Ala Val Ala Cys Ala Ala Thr Gly Leu Val Gly Lys Glu
65           70           75           80
Ser Asp Leu Phe Arg Phe Thr Leu Lys His Ser Leu Phe Phe Ala Thr
           85           90           95
Ile Val Gly Leu Ile Thr Leu Ala Gln Ala Tyr Trp Phe Thr Gly Met
           100          105          110
Leu Val His *
           115

```

&lt;210&gt; 1130

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1130

```

Met Asn Lys Leu Leu Val Ala Ala Thr Ala Ile Leu Phe Ser Leu Gly
 1           5           10           15

```

```

Cys His Glu Lys Cys Lys Ile Phe Phe Leu Lys Ser Ile Ser Ser Pro
      20      25      30
Gln Ser Leu Phe Leu Ala Asp Leu Cys Ala Ser Glu Pro Tyr Leu Leu
      35      40      45
Phe Leu Asn Ala Val Leu Ser Ala Cys Asn Thr Ile Ser Phe Ile Ser
      50      55      60
Val Pro Glu Ser Ser Gly Phe Ala Pro Ser Pro Pro Ala Ile Leu Leu
      65      70      75      80
Leu
      81

```

```

<210> 1131
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1131
Met Cys Cys Trp Ile Trp Phe Ala Ser Ile Leu Leu Arg Ile Phe Ala
  1      5      10      15
Leu Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Val Val
      20      25      30
Ser Leu Pro Gly Phe Gly Ile Arg Met Met Leu Ala Ser *
      35      40      45

```

```

<210> 1132
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1132
Met Ser Gln Glu Pro Gly Arg Arg His Ser Lys Leu Thr Leu Thr Ala
  1      5      10      15
Ser Arg Met Ala Pro Cys Leu Trp Val Trp Thr Ser Leu Cys Gln Ala
      20      25      30
Trp Ser Met Ser Met Gly Ser Leu Ser Met Gln Thr Thr *
      35      40      45

```

```

<210> 1133
<211> 87
<212> PRT
<213> Homo sapiens

```

```

<400> 1133
Met His Ser His Gly Val Ser Tyr Trp Thr Val Arg Thr Val Ile Trp
  1      5      10      15
Pro Ile Ser Ser Leu Val Ser Lys Ile Thr Thr Trp Glu Phe Asn Glu
      20      25      30
Val Thr Ser Met Ser Glu His Leu Lys Ser Cys Pro Phe Asn Ile Val
      35      40      45
Glu His Lys Ser Asp Pro Ile Leu Leu Thr Ser Met Cys His Pro Arg

```

```

      50      55      60
Glu Gln Ala Arg Glu Ser Leu Leu Ser Thr Phe Arg Ile Arg Pro Arg
 65      70      75      80
Gly Arg Tyr Val Ser Tyr *
      85 86

```

```

<210> 1134
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1134
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1      5      10      15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
      20      25      30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
      35      40      45
Ser Arg His Leu Leu Arg Glu Leu *
      50      55 56

```

```

<210> 1135
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1135
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
 1      5      10      15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
      20      25      30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
      35      40      45
Ser Arg His Leu Leu Arg Glu Leu *
      50      55 56

```

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<210> 1136
<211> 105
<212> PRT
<213> Homo sapiens

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```

      <400> 1136
Met Pro Phe Ala Gln Thr Gly Leu Gln Leu Leu Arg Leu Cys Arg
 1      5      10      15
Val Leu His Val Leu Arg Leu Leu Gly Met Leu Arg Glu Gln Met His
      20      25      30
Leu Leu Arg Glu Lys Leu Leu Asp Leu Leu Pro Pro Glu Leu Cys Gln
      35      40      45
Arg Val Pro Arg Ala Ala Thr Ala Lys Gly His Lys Arg Arg Ala Ala
      50      55      60

```

Ala Val Pro Asp Asp Gly Thr Asp Leu Leu Pro Gln Gly Met Arg Thr  
 65 70 75 80  
 Ala Cys Thr Thr Arg Arg Ile Phe Lys Tyr Asn Thr Glu Pro Phe Ala  
 85 90 95  
 Ala Phe Leu Phe Ile Leu Asn Met \*  
 100 104

<210> 1137  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1137  
 Met Val Gly Phe Tyr Leu Gln Ser Val Leu Tyr Phe Tyr Phe Ser Gln  
 1 5 10 15  
 Leu Ile Tyr Leu Gly Asp His Ala Lys Ser Val Asn Ile Val Thr Ser  
 20 25 30  
 Phe Ile Leu Thr Ala Ala Tyr Val Asn Asn Ser Lys Met His His Thr  
 35 40 45  
 Val Phe Asn \*  
 50 51

<210> 1138  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 1138  
 Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His  
 1 5 10 15  
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu  
 20 25 30  
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu  
 35 40 45  
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His  
 50 55 60  
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro  
 65 70 75 80  
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr  
 85 90 95  
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg  
 100 105 110  
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly  
 115 120 125  
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys  
 130 135 140  
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val  
 145 150 155 160  
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn  
 165 170 175  
 Val Arg Gly Lys Val Ala Val Asp Leu Phe \*  
 180 185 186



<210> 1139  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1139  
 Met Trp Gln Lys Ser Leu Leu Ile Leu Ser Phe Arg Val Ser Phe Pro  
 1 5 10 15  
 Leu Phe Leu Thr Tyr Asn Tyr Lys Leu Leu Ser Ile Arg Arg Thr Arg  
 20 25 30  
 Pro Leu Ser Ser Phe Phe Ser Lys Leu Leu Gln Ile Ala Val Asn Ser  
 35 40 45  
 Ile Asn Ser Leu Phe Ser Ala Gly Lys Val Ala Phe Ser Lys His Val  
 50 55 60  
 Cys Leu Leu Pro Gly Gly Leu Lys Ser Met Ile Tyr Cys Ser Ser Met  
 65 70 75 80  
 Cys Leu Lys Gln Leu Leu Arg Ser Phe Lys Gln Glu Ser Ser Lys Gly  
 85 90 95  
 Ser Val Leu Ile Met Val Leu Val Phe Leu Gln Ile \*  
 100 105 108

<210> 1140  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1140  
 Met Pro Ala Pro Thr Ala Trp Leu Leu Pro Ala Val Ser Thr Cys Ser  
 1 5 10 15  
 Asn Leu Arg Ala Lys Ala Gly Val Ile Leu Gly Thr Ile Thr Thr Arg  
 20 25 30  
 Pro Tyr Val His Thr Trp Gly Ser Ala Asp Met Ala Thr Pro Tyr His  
 35 40 45  
 Leu Gly Pro Phe Trp Thr Leu Gly Thr Asp Lys His Arg Arg Glu Ala  
 50 55 60  
 Asn Arg Gly Gln Arg Ala Ile Trp Gly Trp Pro Thr Gly Pro Pro Trp  
 65 70 75 80  
 His Leu \*  
 82

<210> 1141  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1141  
 Met Tyr Gln Trp Gly Ser Ser Ile Ile Leu Ile Leu Trp Pro Leu Ser  
 1 5 10 15  
 Met Asn Ile Gly Cys Tyr Ser Ile Tyr Leu Lys Met Val Met Leu Leu  
 20 25 30

Ser Ser Lys Phe Ser Trp Lys Ser Phe Ser Lys Leu Gln Phe Leu Leu  
           35                  40                  45  
 Leu Leu Lys Phe Arg Tyr Met Cys Ile \*  
       50                  55                  57

<210> 1142  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1142  
 Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu  
   1                  5                  10                  15  
 Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser  
           20                  25                  30  
 Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu \*  
       35                  40                  45

<210> 1143  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1143  
 Met Leu Trp Ala Leu Ile Arg Ala Ala Leu Ala Gln Leu His Thr Glu  
   1                  5                  10                  15  
 Glu Pro Lys Lys Arg Lys Glu Glu Lys Met Ser Pro Ala Leu Ser Pro  
           20                  25                  30  
 Pro Leu Pro Ser Val Pro Ile Ser Leu Gly Gln Asn Asn Arg Lys Arg  
           35                  40                  45  
 Arg Ser His Leu Ser Leu Leu Leu Gln \*  
       50                  55                  57

<210> 1144  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 1144  
 Met Ala Tyr Thr Met Ile Pro Val Leu His Phe Phe Cys Cys Glu Thr  
   1                  5                  10                  15  
 Ser Ser Leu Val Arg Thr Lys Val Val Trp Glu Ala Ile Asn Met Val  
           20                  25                  30  
 Phe Ala Lys Ser Met Asn Gly Gly Pro Asp Arg Cys Ile Ala Val Arg  
           35                  40                  45  
 Gln Val Lys Phe Leu Phe Arg Lys Val Ser Phe Ser Glu Lys Ile Asp  
       50                  55                  60  
 His Cys Pro Leu His Asp Gly Asn Ile Leu Leu Pro Gly Pro Trp Glu  
       65                  70                  75                  80  
 Met Ala Pro Tyr Trp Gly Leu Asn Ile Ser Leu Cys His Leu Gln Phe

```

      85      90      95
Arg His Ser Ile Val Ser Leu Ala Arg Cys Ser Leu Gly Glu Gly Gln
      100      105      110
Ser Met Leu Trp Cys Pro Cys Leu Thr Ser Ile Ser Val Asp Met Ala
      115      120      125
Thr Leu Tyr Ile Asn Ala Ser Ser Ser Leu Ser Ser Lys Gly Lys Lys
      130      135      140
Ala Asp *
145 146

```

```

<210> 1145
<211> 103
<212> PRT
<213> Homo sapiens

```

```

<400> 1145
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
  1      5      10      15
Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
      20      25      30
Pro Gly Lys Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
      35      40      45
Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
      50      55      60
Val Ile Tyr Glu Asp Ser Arg Arg Pro Ser Gly Ile His Lys Arg Phe
      65      70      75      80
Tyr Gly Ser Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Thr
      85      90      95
Gln Ala Met Asp Glu Gly *
      100      102

```

```

<210> 1146
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1146
Met Pro Leu Leu His Gly Val Tyr Leu Ala Arg Arg Ser Leu Ile Cys
  1      5      10      15
Ile Ser Phe Cys His Leu Cys Val Leu Ser Ile Gly Leu Arg Val Ile
      20      25      30
Val Cys Val Val Gly Ile Ser Glu Asp Arg Lys Arg Ser Ala Ser Ala
      35      40      45
Pro Thr Leu Gly Ile Val Pro Leu His Ala Ser Leu His Gln His Cys
      50      55      60
Ala Pro Asn Gln Ser Asn Pro Cys Ser Trp His Leu *
      65      70      75      76

```

```

<210> 1147
<211> 118
<212> PRT

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1147

```

Met Asn Pro Ser Ala Ser Leu Val Cys Leu Leu Phe Ala Phe Ser Ser
 1           5           10           15
Cys Arg Ile Trp Ser Val Leu Cys Gln Leu Cys Val Pro Ser Pro Trp
          20           25           30
Pro Ser Pro Leu Cys Leu Cys Pro Gln Thr Asp Val Ala Pro Ile Cys
          35           40           45
Ala Val Gln Pro Ser Leu Phe Cys Leu Gly Ser Arg Glu Pro Leu Trp
          50           55           60
Thr Val Leu Val Gly Ser Cys Pro Leu Arg Ala Phe Thr Asn Leu Ser
          65           70           75           80
Val Arg Pro Pro Pro Gly His His Ser Ile His Leu Leu Thr Trp Leu
          85           90           95
Ala Ser Ser Ser Ala Ala Ala Thr Thr Ala Ala Ser Thr Ala Ser Gly
          100           105           110
Ala Pro His Ser Val *
          115           117

```

&lt;210&gt; 1148

&lt;211&gt; 399

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1148

```

Met Trp Ala Ala Val Gly Gly Phe Leu Phe Ala Pro Arg Cys Phe Leu
 1           5           10           15
Leu Pro Trp Pro Leu Arg Ala Pro Leu Ser Ser Leu Phe Val Leu Pro
          20           25           30
Arg Leu Leu Leu Trp Pro Ile Pro Tyr Pro Val Leu Ala Ser Val Cys
          35           40           45
Pro Cys Val Pro Gly Gly Arg Phe Phe Gly Pro Leu Tyr Pro Arg Asp
          50           55           60
Leu Arg Leu Leu Arg Cys Val Pro Gly Glu Leu Thr Gly Ala Ala Pro
          65           70           75           80
Arg Thr Leu Pro Gly Cys Asp Leu Asn Cys Leu Gly Leu Gly Arg Glu
          85           90           95
Ala Ala Val Pro Arg Leu Leu Arg Leu Thr Arg Asp Pro Ala Arg Pro
          100           105           110
Ser Cys Arg Thr Leu Gly Val His Ala Val Pro Arg Arg Ala Phe Gly
          115           120           125
Phe Tyr Ala Val Pro Arg Arg Asp Pro Arg Phe Tyr Ala Val Pro Arg
          130           135           140
Arg Val Pro Arg Leu Tyr Ala Val Pro His Pro Ala Leu Arg Val Tyr
          145           150           155           160
Ala Val Pro Arg Arg Thr Phe Arg Val Tyr Ala Val Pro His Pro Ala
          165           170           175
Leu Arg Val Tyr Ala Val Pro Arg Arg Ala Leu Gly Leu Tyr Val Val
          180           185           190
Pro Gln Arg Ala Leu Arg Val Tyr Ala Val Pro Arg Arg Thr Phe Arg
          195           200           205
Val Tyr Ala Val Pro His Pro Ala Leu Arg Leu Tyr Ala Val Ala Arg
          210           215           220
Arg Ala Leu Arg Phe Tyr Val Val Pro Gln Arg Ala Leu Arg Val Tyr

```

```

225          230          235          240
Ala Val Pro Arg Leu Pro Gly Arg Ala Thr Phe Arg Asp Leu Arg Pro
          245          250          255
Leu Leu Arg Leu Leu Leu Pro Leu Gly Gly Arg Arg Val Leu Gly Leu
          260          265          270
Pro Leu Ser Leu Pro Ala Gly Leu Ala Leu Arg Ala Ala Ser Arg Ala
          275          280          285
Arg Pro Leu His Leu Leu Arg Ala Ala Cys Leu Leu Pro Ser Leu Gly
          290          295          300
His Leu Gly Thr Leu Arg Gly Ser Leu Leu Gly Leu Ser Leu Ala Val
305          310          315          320
Arg Pro Pro Arg Ala Pro Arg Leu Gly Leu Arg Ala Pro Val Trp Pro
          325          330          335
Ala Ala Ser Cys Leu Leu His Ser Gly Gly Ala Pro Arg Arg Leu Leu
          340          345          350
Cys Ala Leu Ala Pro Leu Arg Pro Phe Cys Leu Pro Ala Arg Gly Ser
          355          360          365
Trp Leu Ser Gly Ser Leu Ser Gln Arg Arg Gly Asp Leu Arg Arg Pro
          370          375          380
Leu Gly Thr Arg Gly Asn Pro Leu Arg Leu Arg Gly Leu Gly His
385          390          395          399

```

```

<210> 1149
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1149
Met Pro Ser Tyr Phe Lys Thr Cys Ser Leu Phe Thr Leu Leu Ser Ser
 1          5          10          15
Val Phe Leu Val Cys Ile Trp Ile Phe Lys Thr Asn Ile Lys Ser Ser
          20          25          30
Val Ser Glu Ser Pro Pro Asp Ser Gly Leu Gly Gln Val Thr Ala Val
          35          40          45
Tyr Gln Val Gln Cys Leu Cys Trp Ala Lys Asp Cys Asn Tyr Pro Ile
 50          55          60
Cys Ser *
65 66

```

```

<210> 1150
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1150
Met Leu Val Ser Lys Leu Met Leu Gln Ile Val Met Ala Val Pro His
 1          5          10          15
Tyr Ile Met Pro Val Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu
          20          25          30
Leu Glu Ala Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser
          35          40          45
Ser Leu Asp Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met
 50          55          60

```

Leu Arg Lys Ala Leu \*  
65 69

<210> 1151  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 1151  
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu  
1 5 10 15  
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro  
20 25 30  
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg \*  
35 40 45 47

<210> 1152  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 1152  
Met Lys Asp His Leu Glu Phe Pro Phe Leu Asp Leu Leu Asp Leu Thr  
1 5 10 15  
Asp Ser Leu Gly Leu Leu Gly Phe Gln Gly Leu Leu Ala Leu Leu Ala  
20 25 30  
Leu Thr Phe Leu Leu Val Met Arg Tyr Val Asn Gln Ala Leu Gln Ala  
35 40 45  
Pro Gln Asp Leu Gln Val Ile Lys Asp Ser Lys Glu Asn Lys Glu \*  
50 55 60 63

<210> 1153  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1153  
Met Thr Ala Arg Phe Leu Leu Ala Arg Pro Ala Tyr Ser Ser Ala Leu  
1 5 10 15  
Leu Arg Gly Leu Gly Gly Pro Arg Thr Pro Leu Ile Gln Phe Ser Arg  
20 25 30  
Cys Gly Met Met Ser Ile Arg Leu Leu Gly Leu Phe Pro Leu Cys Leu  
35 40 45  
Cys Ser Val Leu Trp Phe Pro Gln Gln His Ser Leu \*  
50 55 60

<210> 1154  
<211> 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1154

```

Met Asp Ser Thr Phe Leu Ala Thr Arg Ala Val Arg Gly Gln Leu Tyr
 1          5          10          15
Leu Trp Ile Ser Met Leu Thr Ile Ala Thr Gly Lys Leu Cys Ala Arg
          20          25          30
Cys Tyr Pro Glu Asn Gln Asp His Ile Ile Gln Met Leu Pro Cys Ser
          35          40          45
Pro Ala Ser Val Ile Leu His Leu Pro Trp Met Met Lys Phe Phe Leu
          50          55          60
Ala Arg His Leu Ile Lys Trp Leu Glu Asn *
65          70          74

```

&lt;210&gt; 1155

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1155

```

Met Met Ala Lys Ser Val Arg Phe Cys Tyr Val Leu Phe Val Glu Glu
 1          5          10          15
Ile Arg Phe Ala Val Leu Val Val Gln Arg Leu Ala Lys Ser Asp Leu
          20          25          30
Trp Ala Lys Ser Gly Leu Leu Ser Ile Phe Ile Phe Ile Ser Lys Val
          35          40          45
Leu Leu Lys Gln Thr His Leu Leu Val Cys Arg Met Tyr Ile Ala Ala
          50          55          60
Phe Ala Leu *
65          67

```

&lt;210&gt; 1156

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1156

```

Met Ile Tyr Phe Leu Ser Thr Pro Leu Leu Leu Thr Leu Phe Asn Ile
 1          5          10          15
Leu Met Thr Phe Phe Phe Val Ala Pro Pro Leu Asn Leu Leu Asn Lys
          20          25          30
Thr His Phe Cys Phe Phe Ser Ser Tyr Ser Leu Lys Asp Phe Arg Cys
          35          40          45
Pro Pro Pro Lys Leu Lys Phe Leu Leu His Pro *
50          55          59

```

&lt;210&gt; 1157

&lt;211&gt; 776

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1157

```

Met Leu Phe Ile Val Thr Ala Leu Leu Cys Cys Gly Leu Cys Asn Gly
 1           5           10           15
Val Leu Ile Glu Glu Thr Glu Ile Val Met Pro Thr Pro Lys Pro Glu
          20           25           30
Leu Trp Ala Glu Thr Asn Phe Pro Leu Ala Pro Trp Lys Asn Leu Thr
          35           40           45
Leu Trp Cys Arg Ser Pro Ser Gly Ser Thr Lys Glu Phe Val Leu Leu
          50           55           60
Lys Asp Gly Thr Gly Trp Ile Ala Thr Arg Pro Ala Ser Glu Gln Val
          65           70           75           80
Arg Ala Ala Phe Pro Leu Gly Ala Leu Thr Gln Ser His Thr Gly Ser
          85           90           95
Tyr His Cys His Ser Trp Glu Glu Met Ala Val Ser Glu Pro Ser Glu
          100          105          110
Ala Leu Glu Leu Val Gly Thr Asp Ile Leu Pro Lys Pro Val Ile Ser
          115          120          125
Ala Ser Pro Thr Ile Arg Gly Gln Glu Leu Gln Leu Arg Cys Lys Gly
          130          135          140
Trp Leu Ala Gly Met Gly Phe Ala Leu Tyr Lys Glu Gly Glu Gln Glu
          145          150          155          160
Pro Val Gln Gln Leu Gly Ala Val Gly Arg Glu Ala Phe Phe Thr Ile
          165          170          175
Gln Arg Met Glu Asp Lys Asp Glu Gly Asn Tyr Ser Cys Arg Thr His
          180          185          190
Thr Glu Lys Arg Pro Phe Lys Trp Ser Glu Pro Ser Glu Pro Leu Glu
          195          200          205
Leu Val Ile Lys Glu Met Tyr Pro Lys Pro Phe Phe Lys Thr Trp Ala
          210          215          220
Ser Pro Val Val Thr Pro Gly Ala Arg Val Thr Phe Asn Cys Ser Thr
          225          230          235          240
Pro His Gln His Met Ser Phe Ile Leu Tyr Lys Asp Gly Ser Glu Ile
          245          250          255
Ala Ser Ser Asp Arg Ser Trp Ala Ser Pro Gly Ala Ser Ala Ala His
          260          265          270
Phe Leu Ile Ile Ser Val Gly Ile Gly Asp Gly Gly Asn Tyr Ser Cys
          275          280          285
Arg Tyr Tyr Asp Phe Ser Ile Trp Ser Glu Pro Ser Asp Pro Val Glu
          290          295          300
Leu Val Val Thr Glu Phe Tyr Pro Lys Pro Thr Leu Leu Ala Gln Pro
          305          310          315          320
Gly Pro Val Val Phe Pro Gly Lys Ser Val Ile Leu Arg Cys Gln Gly
          325          330          335
Thr Phe Gln Gly Met Arg Phe Ala Leu Leu Gln Glu Gly Ala His Val
          340          345          350
Pro Leu Gln Phe Arg Ser Val Ser Gly Asn Ser Ala Asp Phe Leu Leu
          355          360          365
His Thr Val Gly Ala Glu Asp Ser Gly Asn Tyr Ser Cys Ile Tyr Tyr
          370          375          380
Glu Thr Thr Met Ser Asn Arg Gly Ser Tyr Leu Ser Met Pro Leu Met
          385          390          395          400
Ile Trp Val Thr Asp Thr Phe Pro Lys Pro Trp Leu Phe Ala Glu Pro
          405          410          415
Ser Ser Val Val Pro Met Gly Gln Asn Val Thr Leu Trp Cys Arg Gly
          420          425          430
Pro Val His Gly Val Gly Tyr Ile Leu His Lys Glu Gly Glu Ala Thr

```



```

      435      440      445
Ser Met Gln Leu Trp Gly Ser Thr Ser Asn Asp Gly Ala Phe Pro Ile
450      455      460
Thr Asn Ile Ser Gly Thr Ser Met Gly Arg Tyr Ser Cys Cys Tyr His
465      470      475      480
Pro Asp Trp Thr Ser Ser Ile Lys Ile Gln Pro Ser Asn Thr Leu Glu
      485      490      495
Leu Leu Val Thr Gly Leu Leu Pro Lys Pro Ser Leu Leu Ala Gln Pro
      500      505      510
Gly Pro Met Val Ala Pro Gly Glu Asn Met Thr Leu Gln Cys Gln Gly
      515      520      525
Glu Leu Pro Asp Ser Thr Phe Val Leu Leu Lys Glu Gly Ala Gln Glu
530      535      540
Pro Leu Glu Gln Gln Arg Pro Ser Gly Tyr Arg Ala Asp Phe Trp Met
545      550      555      560
Pro Ala Val Arg Gly Glu Asp Ser Gly Ile Tyr Ser Cys Val Tyr Tyr
      565      570      575
Leu Asp Ser Thr Pro Phe Ala Ala Ser Asn His Ser Asp Ser Leu Glu
      580      585      590
Ile Trp Val Thr Asp Lys Pro Pro Lys Pro Ser Leu Ser Ala Trp Pro
      595      600      605
Ser Thr Met Phe Lys Leu Gly Lys Asp Ile Thr Leu Gln Cys Arg Gly
610      615      620
Pro Leu Pro Gly Val Glu Phe Val Leu Glu His Asp Gly Glu Glu Ala
625      630      635      640
Pro Gln Gln Phe Ser Glu Asp Gly Asp Phe Val Ile Asn Asn Val Glu
      645      650      655
Gly Lys Gly Ile Gly Asn Tyr Ser Cys Ser Tyr Arg Leu Gln Ala Tyr
660      665      670
Pro Asp Ile Trp Ser Glu Pro Ser Asp Pro Leu Glu Leu Val Gly Ala
675      680      685
Ala Gly Pro Val Ala Gln Glu Cys Thr Val Gly Asn Ile Val Arg Ser
690      695      700
Ser Leu Ile Val Val Val Val Val Ala Leu Gly Val Val Leu Ala Ile
705      710      715      720
Glu Trp Lys Lys Trp Pro Arg Leu Arg Thr Arg Gly Ser Glu Thr Asp
      725      730      735
Gly Arg Asp Gln Thr Ile Ala Leu Glu Cys Asn Gln Glu Gly Glu
740      745      750
Pro Gly Thr Pro Ala Asn Ser Pro Ser Ser Thr Ser Gln Arg Ile Ser
755      760      765
Val Glu Leu Pro Val Pro Ile *
770      775

```

```

<210> 1158
<211> 80
<212> PRT
<213> Homo sapiens

```

```

<400> 1158
Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu Ala Phe
1      5      10      15
Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala Val Leu
20      25      30
Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr Trp His
35      40      45

```

Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu Gly Glu  
 50 55 60  
 Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp Gly \*  
 65 70 75 79

<210> 1159  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 1159  
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val  
 1 5 10 15  
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly  
 20 25 30  
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp  
 35 40 45  
 Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala  
 50 55 60  
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu  
 65 70 75 80  
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln  
 85 90 95  
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp  
 100 105 110  
 Pro Thr Ala Ile Lys Tyr Phe Leu Thr Gln Ala Thr Ala Ser Ile Ile  
 115 120 125  
 Leu Leu Ile Ala  
 130 132

<210> 1160  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 1160  
 Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu  
 1 5 10 15  
 Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser  
 20 25 30  
 Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp  
 35 40 45  
 Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala  
 50 55 60  
 Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp  
 65 70 75 80  
 Glu Ala Gly Pro Ala Cys Arg Thr Gln Pro Ser Pro Gln Asn Leu Ala  
 85 90 95  
 Pro Arg Pro His Pro Ser Ala Ala Gln Leu Ile Glu Asn Ala Ala Leu  
 100 105 110  
 Arg Ser Ala Met Ser Gly Glu Arg Leu Phe Pro Glu Gly Gln Glu His  
 115 120 125  
 Leu Gly Pro Leu Val Ala Pro Arg Val Pro Met Gly Gly Ala Leu Cys

```

      130              135              140
Pro Pro Leu Pro Ser Leu Ser Cys Ala Ile Cys Lys Val Gly Ala Ala
145              150              155              160
Arg Glu Ala Gly Gly Arg *
              165 166

```

```

<210> 1161
<211> 84
<212> PRT
<213> Homo sapiens

```

```

      <400> 1161
Met Ala Asn Leu Leu Leu Leu Ile Val Pro Ile Leu Ile Ala Met Ala
  1              5              10              15
Phe Leu Met Leu Thr Glu Arg Lys Ile Leu Gly Tyr Ile Gln Leu Arg
              20              25              30
Lys Gly Pro Asn Val Val Gly Pro Tyr Gly Leu Leu Gln Pro Phe Ala
              35              40              45
Asp Ala Ile Lys Leu Phe Thr Lys Glu Pro Leu Lys Pro Ala Thr Ser
              50              55              60
Ala Ile Thr Leu Tyr Ile Thr Ala Pro Thr Leu Ala Leu Thr Ile Ala
              65              70              75              80
Leu Leu Leu *
              83

```

```

<210> 1162
<211> 80
<212> PRT
<213> Homo sapiens

```

```

      <400> 1162
Met Lys Ala Trp Cys Phe Ser Asn Lys Phe Trp Leu Ala Val Leu Pro
  1              5              10              15
Ile Cys Cys Ala Ser Ala Ala Tyr Leu Gly Gln Val Trp Leu Leu Ile
              20              25              30
Tyr Ala Trp Arg Ala Glu Thr Ser Leu Glu Thr Glu Phe Tyr Thr Ile
              35              40              45
Pro Leu Ser Trp Leu Tyr Tyr Phe Thr Thr Thr Tyr Tyr Leu Met Phe
              50              55              60
Leu Pro Ser Leu Lys Phe Ala Gln Asp Ser Pro Pro Arg Ala Phe *
              65              70              75              79

```

```

<210> 1163
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 1163
Met Tyr Gly Leu Lys Ile Leu Ser His Leu Trp Val Leu Leu Ile Leu
  1              5              10              15

```

```

Ser Leu Leu Leu Phe Leu Arg Lys Ser Phe Lys Phe Tyr Ala Val Ser
      20      25      30
Phe Val Cys Phe Ala Phe Val Ala Phe Trp Asn Asn Leu Gln Lys Ile
      35      40      45
Ile Ala Gln Ala Asn Val Ile Gln Ser Pro Ser Ile Phe Pro Cys Ser
      50      55      60
Ser Ser Thr Phe Lys Leu *
      65      70

```

```

<210> 1164
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1164
Met Glu Thr Ala Val Ile Gly Val Val Val Val Leu Phe Val Val Thr
  1      5      10      15
Val Ala Ile Thr Cys Val Leu Cys Cys Phe Ser Cys Asp Ser Arg Ala
      20      25      30
Gln Asp Pro Gln Gly Gly Pro Gly Arg Ser Phe Thr Val Ala Thr Phe
      35      40      45
Arg Gln Glu Ala Ser Leu Phe Thr
      50      55  56

```

```

<210> 1165
<211> 97
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(97)
<223> Xaa = any amino acid or nothing

```

```

<400> 1165
Met Lys Met Leu Cys Gly Leu Leu Arg Thr Val Gln Gly Val Arg Phe
  1      5      10      15
Pro Gln Leu Thr Arg Ile His Gly Pro Ser Thr Gln Gly His Gln Leu
      20      25      30
Leu Leu Leu Trp Val Gly Val Leu Gln Val Gly Xaa Ser Ser Leu Gly
      35      40      45
Leu Gln Asn Asp Leu Met Gly Pro Ser Leu Gly Arg Gly Pro Pro Pro
      50      55      60
Leu Ala Ala Ser Thr Arg Cys Arg His Val Ala Gln Leu Gly Val Gly
      65      70      75      80
Leu Ser Lys Thr Trp Gln Pro Ser Thr His Gly Ile Ala Ser Ala Pro
      85      90      95  96
*

```

```

<210> 1166
<211> 48

```

&lt;212&gt; PRT

&lt;213&gt; Homo. sapiens

&lt;400&gt; 1166

```

Met Leu Ile Phe Val Phe Leu Phe Ser Tyr Leu Ile Ala Leu Ala Gly
 1           5           10           15
Thr Phe Ser Pro Arg Leu Asn Arg Ser Gly Glu Ser Val His Pro Phe
           20           25           30
Ala Leu His Pro Val Leu Arg Arg Lys His Pro Val Ile His Leu *
           35           40           45           47

```

&lt;210&gt; 1167

&lt;211&gt; 274

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1167

```

Met Glu Ala Pro Leu Ser His Leu Glu Ser Arg Tyr Leu Pro Ala His
 1           5           10           15
Phe Ser Pro Leu Val Phe Phe Leu Leu Leu Ser Ile Met Met Ala Cys
           20           25           30
Cys Leu Val Ala Phe Phe Val Leu Gln Arg Gln Pro Arg Cys Trp Glu
           35           40           45
Ala Ser Val Glu Asp Leu Leu Asn Asp Gln Val Thr Leu His Ser Ile
           50           55           60
Arg Pro Arg Glu Glu Asn Asp Leu Gly Pro Ala Gly Thr Val Asp Ser
           65           70           75           80
Ser Gln Gly Gln Gly Tyr Leu Glu Glu Lys Ala Ala Pro Cys Cys Pro
           85           90           95
Ala His Leu Ala Phe Ile Tyr Thr Leu Val Ala Phe Val Asn Ala Leu
           100          105          110
Thr Asn Gly Met Leu Pro Ser Val Gln Thr Tyr Ser Cys Leu Ser Tyr
           115          120          125
Gly Pro Val Ala Tyr His Leu Ala Ala Thr Leu Ser Ile Val Ala Asn
           130          135          140
Pro Leu Ala Ser Leu Val Ser Met Phe Leu Pro Asn Arg Ser Leu Leu
           145          150          155          160
Phe Leu Gly Val Leu Ser Val Leu Gly Thr Cys Phe Gly Gly Tyr Asn
           165          170          175
Met Ala Met Ala Val Met Ser Pro Cys Pro Leu Leu Gln Gly His Trp
           180          185          190
Gly Gly Glu Val Leu Ile Val Ser Ile Arg Pro Val Ala Ser Trp Val
           195          200          205
Leu Phe Ser Gly Cys Leu Ser Tyr Val Lys Val Met Leu Gly Val Val
           210          215          220
Leu Arg Asp Leu Ser Arg Ser Ala Leu Leu Trp Cys Gly Ala Ala Val
           225          230          235          240
Gln Leu Gly Ser Leu Leu Gly Ala Leu Leu Met Phe Pro Leu Val Asn
           245          250          255
Val Leu Arg Leu Phe Ser Ser Ala Asp Phe Cys Asn Leu His Cys Pro
           260          265          270
Ala *
273

```

<210> 1168  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<400> 1168  
 Met Arg Ile Cys Asn Leu Ile Ser Met Met Leu Leu Leu Cys His Trp  
 1 5 10 15  
 Asp Gly Cys Leu Gln Phe Leu Val Pro Met Leu Gln Asp Phe Pro Arg  
 20 25 30  
 Asn Cys Trp Val Ser Ile Asn Gly Met Val Asn His Ser Trp Ser Glu  
 35 40 45  
 Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys Ile  
 50 55 60  
 Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu Thr  
 65 70 75 80  
 Met Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly  
 85 90 95  
 His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr  
 100 105 110  
 Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu  
 115 120 125  
 Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg Tyr  
 130 135 140  
 Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn Gly  
 145 150 155 160  
 Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val Ala  
 165 170 175  
 Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala Met  
 180 185 190  
 Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile Ile  
 195 200 205  
 Pro Arg Arg His His Arg Glu Glu Asp Val Leu His Pro Ala Arg Arg  
 210 215 220  
 Gly Gln Arg Ala His \*  
 225 229

<210> 1169  
 <211> 213  
 <212> PRT  
 <213> Homo sapiens

<400> 1169  
 Met Ala His Phe Thr Trp Ala His Leu Arg Val Leu Thr Leu Phe Leu  
 1 5 10 15  
 Leu Gln Val Gly Leu Leu Asp Asp Val His Gln Leu Leu Gly Pro Gln  
 20 25 30  
 Ala Asp Glu Asp Ser Leu Ser Ile Phe Thr Val Met Pro Ala Leu His  
 35 40 45  
 Gln Ser Gln Glu Gln Leu Gly Gly Ile Val Leu Glu Leu Gln His Gln  
 50 55 60  
 Ile His Ala Val Leu Ala Gln Gly Ala Asp Val Ile Glu Asp Gln Cys  
 65 70 75 80  
 Gly Asp Asp Val Tyr Ala Ile Gly Leu Val Ser His Asn Ala Ser Leu

```

      85      90      95
Val Leu Met Ala Gly Ala Leu Ala Val Leu Ser Glu Gly Leu Gln Gly
      100      105      110
Leu Asp Asp Glu Ala His Val Val Leu Ile Asp Val Glu Pro Gln Gln
      115      120      125
Pro Gln Ala Ala Arg Gly Ala Ala His Asp Val Gln Glu Leu Gln
      130      135      140
Arg Leu Ala Tyr Gln Val Val Val Gly Phe Val Val Leu Thr Ala Gln
      145      150      155      160
Glu Val Leu Gln Val Pro Val Val Val Leu Thr Gln Gln Leu Gln Lys
      165      170      175
Ala Gln Asp Gly Leu His Asp Glu His Gly Cys Ala His Leu Thr Ala
      180      185      190
Leu His Thr Phe Ala His Leu Val Pro Pro Ala Gln Ala Gly Ala Gln
      195      200      205
Arg Val Ala Gly *
      210      212

```

```

<210> 1170
<211> 51
<212> PRT
<213> Homo sapiens

```

```

<400> 1170
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
  1      5      10      15
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
      20      25      30
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
      35      40      45
Phe His *
      50

```

```

<210> 1171
<211> 157
<212> PRT
<213> Homo sapiens

```

```

<400> 1171
Met Leu Val Pro Leu Asn Leu Cys Leu Gln Ser Thr Leu Ala Leu Val
  1      5      10      15
Ser Leu Pro Leu Pro Gly Ile Gly Arg Ala Phe Cys Glu Trp Leu Ser
      20      25      30
Gly Thr Phe Lys Ala Arg Arg Gln Gly Pro Lys Ala Lys Arg Glu Leu
      35      40      45
Trp Asp Val Pro Ser Pro Val Arg Gly Trp Pro Trp Gly Phe Arg Leu
      50      55      60
Arg Gly Val Pro Gly Pro Val Ser Pro Ala Phe Gly Pro Phe Gly Glu
      65      70      75      80
Phe Gly Glu Glu Val Pro Thr Ala Arg Pro Gly Asp Val Arg Gly Ala
      85      90      95
Ala Leu Thr Phe Ile Val Gly Val Ser Ser Glu Val Ser Val Gln Arg
      100      105      110

```

```

Arg Ser Ala Gly Arg Ser His Arg Gly Arg Arg Arg Arg Ala Ser Cys
      115              120              125
Thr Ala Ala Pro Gly Gly Gly Val Thr Arg Arg Trp Lys Glu Tyr Cys
      130              135              140
Thr Gln Arg Ile Asn Asn Leu Val Lys Pro Phe Ser  *
145              150              155 156

```

```

<210> 1172
<211> 69
<212> PRT
<213> Homo sapiens

```

```

<400> 1172
Met Asn Pro Tyr Ile Ser Ile Ile Val Phe Ile Val Phe Leu Cys Ser
 1              5              10              15
Glu Asn Tyr Pro Trp Asn Asn Met Leu Arg Ile Thr Gly Ser Ser Pro
      20              25              30
Tyr Leu His Phe Leu Ser Val Leu Gly Val Leu Val Asn Ser Tyr Val
      35              40              45
Leu Ile Leu Phe Asn Ser Glu Phe Leu Thr Gln His Phe Arg Glu Arg
      50              55              60
Ile Gln Ala Gly  *
65              68

```

```

<210> 1173
<211> 75
<212> PRT
<213> Homo sapiens

```

```

<400> 1173
Met Cys Ser Leu Lys Phe Trp Ile Cys Phe Cys Gln Ala Val Ser Met
 1              5              10              15
His Leu Cys Ala Thr Gln Leu Ser Val Ser Leu Pro Ala Gly Ile Ser
      20              25              30
Met Phe Val Ser Gly Leu Val Cys Asp Ile Cys Val Trp Ser Gly Ser
      35              40              45
Gly Met Thr His Pro Tyr Trp Ser Arg Met Arg Val Glu Met Met Val
      50              55              60
Ala Gly Cys Phe Arg Glu Arg Asp Ala His  *
65              70              74

```

```

<210> 1174
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1174
Met Leu Ser Ser Phe Phe Lys Ser Cys Phe Cys Val Ser Phe Trp Thr
 1              5              10              15
Leu Ser Ile Ala Thr Ser Ser Asn Leu Leu Ile Phe Ser Ser Ala Ile

```



```

          20          25          30
Ser Asn Leu Leu Leu Ile Leu Ser Ser Val Phe Ser Ile Leu Asp Ile
          35          40          45
Val Val Phe Ile Thr Arg Ser Met Ile Trp Phe Cys Phe His Pro Cys
          50          55          60
Ile Tyr Ile Thr Cys Pro Val Phe His Ser Ala Ser *
          65          70          75  76

```

<210> 1175  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

```

    <400> 1175
Met Ser Phe Ala Phe Ser Leu Trp Tyr Pro Phe Leu Arg Asp Leu Arg
  1          5          10          15
Ser Cys Phe Lys Leu Ser Lys Leu Ser Cys His Ser Pro Ile Ser Phe
          20          25          30
Val Gln Tyr Thr Thr Met Ser Thr Arg Val Ser Cys Leu Asn Leu Leu
          35          40          45
Tyr Pro His Leu Arg Val Val Ser Ile His Ser
          50          55          59

```

<210> 1176  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

```

    <400> 1176
Met His Leu Leu Cys Ser Gly His Lys Leu Cys Leu Cys Ile Val Tyr
  1          5          10          15
Ile Ser Phe Phe Leu Phe Phe Lys Val Tyr Gly Phe Cys Phe Leu His
          20          25          30
Ala Asn Ile Val Asn Tyr Thr Glu Asp Thr Thr Asp Ser Ile Tyr Lys
          35          40          45
Val Tyr Arg Asn Ile Ile *
          50          54

```

<210> 1177  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

```

    <400> 1177
Met Leu Ser Met Leu Leu Arg Ala Val Phe Cys Cys Cys Arg Arg Leu
  1          5          10          15
His Leu Val Ser Ser Ile Leu Phe Cys Cys Ser Arg Asn Arg Thr Leu
          20          25          30
Ser Met Lys Glu Ala Asn Leu Leu Arg Val Leu Ile Cys Ser Phe
          35          40          45

```

Ser Trp Val Arg Thr Ala Trp Met Leu Gly Ser Thr Ser Arg Thr Arg  
 50 55 60  
 Gly Leu Ser Arg Leu Trp Leu Thr Val Thr Ala Val Met Pro Pro Met  
 65 70 75 80  
 Pro Leu Ala Pro Pro \*  
 85

<210> 1178  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

<400> 1178  
 Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe  
 1 5 10 15  
 Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu  
 20 25 30  
 Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr  
 35 40 45  
 Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly  
 50 55 60  
 Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu  
 65 70 75 80  
 Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn  
 85 90 95  
 Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr  
 100 105 110  
 Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys  
 115 120 125  
 His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala  
 130 135 140  
 Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr  
 145 150 155 160  
 Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe  
 165 170 175  
 Lys Pro Gln Lys Thr Val Glu Glu Gly Gly Lys Pro \*  
 180 185 188

<210> 1179  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1179  
 Met Ile Cys Lys Tyr Phe Phe Leu Ile Leu Trp Val Val Phe Ser Phe  
 1 5 10 15  
 Phe Phe Met Phe Leu Asp Ala Gln Lys Phe Ile Ile Leu Met Lys Ser  
 20 25 30  
 Asn Ser Ser Phe Leu Leu Leu Leu His Met Leu Leu Glu Ser Tyr Leu  
 35 40 45  
 Arg Asn His Cys Gln Ile \*  
 50 54

<210> 1180  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1180  
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys  
 1 5 10 15  
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys  
 20 25 30  
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile  
 35 40 45  
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp  
 50 55 60  
 Leu Met Pro Val Ile Pro Ala Ile Trp Glu Ala Glu Ala Arg Thr Ala  
 65 70 75 80  
 \*

<210> 1181  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1181  
 Met Asp Glu Val His Val Leu Gly Leu Ala Leu Leu Thr Val Leu Ile  
 1 5 10 15  
 Glu Leu Val Ser Pro Leu Asp Ser Leu Arg Arg His Ser Cys Tyr Ile  
 20 25 30  
 Thr His Thr Phe Ser Cys Asn His Thr Asn Ser His Phe Tyr Ile Leu  
 35 40 45  
 Ser Ile Ser Cys Thr Asn Trp Gly Leu Lys Val Tyr Lys Ile Phe Leu  
 50 55 60  
 Ser Cys Glu Phe \*  
 65 68

<210> 1182  
 <211> 430  
 <212> PRT  
 <213> Homo sapiens

<400> 1182  
 Met Ile Thr Lys Thr Pro Ala Gln Leu Arg Ser Val Ala Thr Ile Leu  
 1 5 10 15  
 Lys Thr Leu Cys Leu Ala Ser Pro Thr Val Ala Asn Val Lys Ala Pro  
 20 25 30  
 Pro Gln Val Ala Val Ala Ala Gly Thr Pro Asn Thr Ser Gly Ser Ile  
 35 40 45  
 His Glu Asn Pro Pro Lys Ala Lys Ala Thr Val Asn Val Lys Gln Ala  
 50 55 60

Ala Lys Val Val Lys Ala Ser Ser Pro Ser Tyr Leu Ala Glu Gly Lys  
 65 70 75 80  
 Ile Arg Cys Leu Ala Gln Pro His Pro Gly Thr Gly Val Pro Arg Ala  
 85 90 95  
 Ala Ala Glu Leu Pro Leu Glu Ala Glu Lys Ile Lys Thr Gly Thr Gln  
 100 105 110  
 Lys Gln Ala Lys Thr Asp Met Ala Phe Lys Thr Ser Val Ala Val Glu  
 115 120 125  
 Met Ala Gly Ala Pro Ser Trp Thr Lys Val Ala Glu Glu Gly Asp Lys  
 130 135 140  
 Pro Pro His Gly Pro Arg Cys Pro Asn His Ala Cys Gln Arg Leu Gly  
 145 150 155 160  
 Gly Leu Ser Ala Pro Pro Trp Ala Lys Pro Glu Asp Arg Gln Thr Gln  
 165 170 175  
 Pro Gln Pro His Gly His Val Pro Gly Lys Thr Thr Gln Gly Gly Pro  
 180 185 190  
 Cys Pro Ala Ala Cys Glu Val Gln Gly Met Leu Val Pro Pro Met Ala  
 195 200 205  
 Pro Thr Gly His Ser Thr Cys Asn Val Glu Ser Trp Gly Asp Asn Gly  
 210 215 220  
 Ala Thr Arg Ala Gln Pro Ser Met Pro Gly Gln Ala Val Pro Cys Gln  
 225 230 235 240  
 Glu Asp Thr Val Gly Ser Leu Leu Ala Ser Leu Cys Ala Glu Val Ala  
 245 250 255  
 Gly Val Leu Ala Ser Gln Glu Asp Leu Arg Thr Leu Leu Ala Lys Ala  
 260 265 270  
 Leu Ser Gln Gly Glu Val Trp Ala Ala Leu Asn Gln Ala Leu Ser Lys  
 275 280 285  
 Glu Val Leu Gly Ala Thr Val Thr Lys Ala Leu Pro Gln Ser Met Leu  
 290 295 300  
 Ser Met Ala Leu Val Lys Ala Leu Ser Trp Ser Glu Leu Arg Leu Thr  
 305 310 315 320  
 Leu Ser Arg Ala Leu Ser Arg Gly Glu Leu Arg Ala Glu Leu Thr Lys  
 325 330 335  
 Val Met Gln Gly Lys Leu Ala Glu Val Leu Ser Lys Ala Leu Thr Glu  
 340 345 350  
 Glu Glu Trp Val Ala Leu Ser Gln Ala Leu Cys Gln Gly Glu Leu Gly  
 355 360 365  
 Ala Leu Leu Ser Gln Ser Trp Cys Arg Val Ala Leu Arg Thr Gly Thr  
 370 375 380  
 Ile Leu Pro Lys Ala Ala Ser Lys Ser Thr Gly Ser Gly Val Thr Lys  
 385 390 395 400  
 Thr Pro Ala Leu Val Lys Val Ala Cys Arg Arg Ser Pro Ser Ala Ala  
 405 410 415  
 Trp Gly Pro Ser Leu Gly Pro Val Arg Pro Gln Thr Ser Lys  
 420 425 430

<210> 1183  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1183  
 Met Thr Phe Ile Leu Ser Arg Pro Pro Phe Phe Phe Leu Phe Ser Lys  
 1 5 10 15  
 Arg Ser Cys Ser Gly Ala Arg Trp Ser Arg Trp Pro Gln Phe Gly Tyr

```

          20          25          30
Ser Thr Ser Pro Pro Gly Ser Met Phe Phe Ser Ser Pro Pro Ser Arg
          35          40          45
Gly Ile Pro Ala *
          50          52

```

```

<210> 1184
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1184
Met Ser Met Leu His Trp Ile His Phe Ile Leu His Val Ser Ile Val
  1          5          10          15
Leu Lys Phe Leu Ser Val Lys Cys Ser Ile Ile Tyr Lys Lys Ser Phe
          20          25          30
Ala Ser Ser Ala Phe Phe Leu Val Gln Ala Ser Phe Phe His Ile Met
          35          40          45
Leu Ser Gln Leu Tyr Phe Gln *
          50          55

```

```

<210> 1185
<211> 294
<212> PRT
<213> Homo sapiens

```

```

<400> 1185
Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
  1          5          10          15
Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
          20          25          30
Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
          35          40          45
Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
          50          55          60
Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
          65          70          75          80
Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
          85          90          95
Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
          100          105          110
Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
          115          120          125
Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
          130          135          140
Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
          145          150          155          160
Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
          165          170          175
Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
          180          185          190
Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
          195          200          205

```

Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu  
 210 215 220  
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala  
 225 230 235 240  
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro  
 245 250 255  
 Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu  
 260 265 270  
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu  
 275 280 285  
 Gln Ala Asn Ser Thr \*  
 290 293

<210> 1186  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1186  
 Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu  
 1 5 10 15  
 Met Ile His Cys Leu Gln Asn Gly Asp His Arg Arg Thr Arg Pro Pro  
 20 25 30  
 Thr Glu Thr Gly Trp Leu Pro Leu Arg Phe His Leu Arg Thr Gly Lys  
 35 40 45  
 Ile Leu Arg Tyr Leu Arg Gly Glu \*  
 50 55 56

<210> 1187  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<400> 1187  
 Met Asp Leu Asp Asn Ala Lys Tyr Ser Leu Leu Gly Phe Ala Leu Phe  
 1 5 10 15  
 Trp Val Val Val Gly Phe Phe Phe Val Cys Leu Phe Trp Phe Leu Val  
 20 25 30  
 Phe Leu Pro Trp Cys Lys Thr Val Glu Ser Cys Leu Phe Thr Gly Leu  
 35 40 45  
 Gly Ser Ile Glu Val Cys Val Ser Ser Val Arg Phe Leu Leu Arg Thr  
 50 55 60  
 Ile Cys Ile Phe Asn Asn Ser Thr Ser Ser Arg Pro Ser Arg Arg Asn  
 65 70 75 80  
 Glu Arg Gly Leu Val Ser Ser Pro Glu Leu Ala Leu Glu Cys Val His  
 85 90 95  
 Leu Ala Ala His Gly Leu Val Ala Leu Arg Gly Leu Ile Gln Leu Pro  
 100 105 110  
 Leu Gln Leu Pro Ala Val Gly Val Asp Ala Leu Gly Leu Leu Leu Cys  
 115 120 125  
 Leu Leu Gln Leu Pro Leu Glu Leu Leu Asp Pro Gly Ile Ala Phe Leu  
 130 135 140  
 Cys Leu Leu Leu Val Leu Leu Gly His Leu Ala Leu Val Leu His Leu

145		150		155		160									
Gln	Gln	Asp	Phe	Leu	Gln	Leu	Leu	Val	Phe	Leu	Leu	Gln	Arg	Leu	Gly
				165					170					175	
Gly	Arg	Leu	Phe	Leu	Ser	Gly	Leu	Leu	Leu	Asp	Leu	Leu	Leu	*	
			180						185					190	

<210> 1188  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<400> 1188

Met	Ser	Pro	Pro	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Pro	Leu
1				5					10					15	
Leu	Asn	Val	Glu	Pro	Ala	Gly	Ala	Thr	Leu	Ile	Arg	Ile	Pro	Leu	Arg
			20					25					30		
Gln	Val	His	Pro	Gly	Arg	Arg	Thr	Leu	Asn	Leu	Leu	Arg	Gly	Trp	Gly
		35					40					45			
Lys	Pro	Ala	Glu	Leu	Pro	Lys	Leu	Gly	Ala	Pro	Ser	Pro	Gly	Asp	Lys
		50				55					60				
Pro	Ala	Ser	Val	Pro	Leu	Ser	Lys	Phe	Leu	Asp	Ala	Gln	Tyr	Phe	Gly
		65			70					75				80	
Glu	Ile	Gly	Leu	Gly	Thr	Pro	Pro	Gln	Asn	Phe	Thr	Val	Ala	Phe	Asp
				85					90					95	
Thr	Gly	Ser	Ser	Asn	Leu	Trp	Val	Pro	Ser	Arg	Arg	Cys	His	Phe	Phe
			100					105					110		
Ser	Val	Pro	Cys	Trp	Phe	His	His	Arg	Phe	Asn	Pro	Asn	Ala	Ser	Ser
		115				120						125			
Ser	Phe	Lys	Pro	Ser	Gly	Thr	Lys	Phe	Ala	Ile	Gln	Tyr	Gly	Thr	Gly
		130				135					140				
Arg	Val	Asp	Gly	Ile	Leu	Ser	Glu	Asp	Lys	Leu	Thr	Ile	Gly	Gly	Ile
				145		150				155					160
Lys	Gly	Ala	Ser	Val	Ile	Phe	Gly	Glu	Ala	Leu	Trp	Gly	Ile	Gln	Pro
				165					170					175	
Gly	Ser	Ser	Leu	Phe	Pro	Ala	Pro	Met	Gly	Tyr	Trp	Gly	Leu	Gly	Phe
			180					185					190		
Pro	Ile	Leu	Val	Leu	Trp	Glu	Gly	Ile	Ser	Ala	Pro	Ala	Gly	Cys	Thr
		195					200					205			
Gly	Gly	Ala	Gly	Ala	Ile	Gly	*								
		210				215									

<210> 1189  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 1189

Met	Ala	Leu	Arg	Gly	Ala	Leu	Gln	Ser	Gln	Ser	Gly	Leu	Leu	Ser	Leu
1				5					10					15	
Leu	Leu	Leu	Gly	Leu	Gly	Asp	Lys	Asp	Pro	Val	Val	Arg	Cys	Ser	Ala
			20					25					30		
Ser	Phe	Ala	Val	Gly	Asn	Ala	Ala	Tyr	Gln	Ala	Gly	Pro	Leu	Gly	Pro
			35				40					45			

```

Ala Leu Ala Ala Ala Val Pro Ser Met Thr Gln Leu Leu Gly Asp Pro
  50                      55                      60
Gln Ala Gly Ile Arg Arg Asn Val Ala Ser Ala Leu Gly Asn Leu Gly
  65                      70                      75                      80
Pro Glu Gly Leu Gly Glu Glu Leu Leu Gln Cys Glu Val Pro Gln Arg
                      85                      90                      95
Leu Leu Glu Met Ala Cys Gly Asp Pro Gln Pro Asn Val Lys Glu Ala
                      100                      105                      110
Ala Leu Ile Ala Leu Arg Ser Leu Gln Gln Glu Pro Gly Ile His Gln
                      115                      120                      125
Val Leu Val Ser Leu Gly Ala Ser Glu Lys Leu Ser Leu Leu Ser Leu
  130                      135                      140
Gly Asn Gln Ser Leu Pro His Ser Ser Pro Arg Pro Ala Ser Ala Lys
  145                      150                      155                      160
His Cys Arg Lys Leu Ile His Leu Leu Arg Pro Ala His Ser Met *
                      165                      170                      175

```

```

<210> 1190
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1190
Met Ala Gly Thr Ala Gln Leu Leu Gly Leu Lys Gln Leu Ile Gly Leu
  1                      5                      10                      15
Glu Leu Leu Thr Ala Gln Cys Gly Gln Ile Thr Gly Tyr Arg Asp Arg
                      20                      25                      30
Arg Glu Glu Leu Leu Pro Pro Arg Phe Leu Ala Thr Gly Pro Pro Ser
                      35                      40                      45
Cys His Pro Pro Ser Gln Thr Val Pro *
  50                      55                      57

```

```

<210> 1191
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1191
Met Gly Ile Cys Leu Thr Trp Lys Pro Pro Thr Gly Val Ser Val Ile
  1                      5                      10                      15
Leu Ile Leu Leu Ser Glu Leu His Met Lys Ser Pro Gly Arg Leu Lys
                      20                      25                      30
Pro Lys Ser Ser Pro His Phe Ser Thr Val Leu Thr Pro Leu Thr Phe
                      35                      40                      45
Met Tyr Pro Gly Leu Ala Leu Leu His Ser Leu Tyr Trp His Trp Gln
  50                      55                      60
Glu Asn Gly Glu Ile Leu Cys Arg Ala Ala Glu Pro Lys Phe Ala Gln
  65                      70                      75                      80
Glu Ser Lys Cys Thr Ile Tyr *
                      85                      87

```



<210> 1192  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1192  
 Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr  
 1 5 10 15  
 Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr  
 20 25 30  
 Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn  
 35 40 45  
 Gly Thr Glu Arg Val Arg Tyr Leu Asp Arg Tyr Phe His Asn Gln Glu  
 50 55 60  
 Glu Asn Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr  
 65 70 75 80  
 Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu  
 85 90 95  
 Leu Gly Thr Ala Arg Arg Thr Ser Trp Ser Arg Ser Gly Ala Gly Trp  
 100 105 110  
 Thr Thr Thr Ala Asp Thr Thr Thr Gly Leu Trp Arg Ala Ser Gln Cys  
 115 120 125  
 Ser Gly Glu Ser Ile Leu Arg \*  
 130 135

<210> 1193  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1193  
 Met Leu Ala Ser Arg Gln Ala Cys Cys Pro Pro Val Ser Ser Leu Phe  
 1 5 10 15  
 Leu Pro Leu Ser Pro Thr Leu Ser Gly Phe Phe Thr Val Cys Ser Val  
 20 25 30  
 Ser His Leu His Val Pro Arg Gly Pro Ala Arg Leu Cys Pro Arg Met  
 35 40 45  
 Ser His Gly Ser Pro Ser Gly Leu Pro Ala Glu Pro Ser Glu His Gly  
 50 55 60  
 Cys Leu Leu Val Val Gly Leu Gln Gln Asn Cys Thr Arg Leu Thr Ser  
 65 70 75 80  
 Pro Ile Leu Ser Ser Arg Gly Leu Arg Val Gln Arg Arg Val Asn Leu  
 85 90 95  
 Ala Asp \*  
 98

<210> 1194  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1194

Met Phe Ser Pro Ser Phe Gln Gly Ile Ile Thr Lys Val Arg Cys Val  
 1 5 10 15  
 Cys Val Ser Leu Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val  
 20 25 30  
 Cys Val Tyr Lys Glu Pro Gly Met Arg Ala Gly Arg Gly Gly Ser Arg  
 35 40 45  
 Leu \*  
 49

<210> 1195  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1195  
 Met Gln Gly Val Arg Val Ser Phe Gly Trp Ala Met Gly Leu Ala Trp  
 1 5 10 15  
 Gly Ser Cys Ala Leu Glu Ala Phe Ser Gly Thr Leu Leu Leu Ser Ala  
 20 25 30  
 Ala Trp Thr Leu Ser Leu Ser Pro Pro Ile Cys Gly His Leu Ser Pro  
 35 40 45  
 Gln Gln Val Gly Gly Arg Gly Gly Asp \*  
 50 55 57

<210> 1196  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 1196  
 Met Leu Pro Asn Ser Ser Ser Leu Trp Leu Val Met Arg Ile Leu Ile  
 1 5 10 15  
 Phe Cys Val Ile Pro Ala Gly Gly Val Leu Gly Ala Pro Thr Ala Ala  
 20 25 30  
 Gly Leu Arg Pro Thr Gly Asp Val Ala Leu Arg Arg Pro Ala Gly Ser  
 35 40 45  
 Val Glu Pro Ser Gly Ser Arg Gly Leu Arg Ala Ser Val Cys Gln Arg  
 50 55 60  
 Leu Ser Met Phe Leu Ala His Phe Leu Arg Gly His Phe Leu Trp Trp  
 65 70 75 80  
 Ile Leu Asp Gly Gln Arg Leu Gly Phe Pro Leu Ser Leu Ala Thr Trp  
 85 90 95  
 Asn Arg Arg Lys Lys Ser Leu Gln His Leu Leu His Lys His Val Leu  
 100 105 110  
 Pro Val Arg Arg His Ala Gly Pro Cys Arg Gly Pro Gln Thr Thr Ala  
 115 120 125  
 Arg Gly Pro Arg  
 130 132

<210> 1197  
 <211> 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1197

```

Met Pro Tyr Leu Ile Leu Phe Phe Ala Val Tyr Ile Leu Tyr Lys Ile
 1           5           10           15
Leu Val Lys Val His Leu Phe Ile Ala Glu Ile Ala Leu Tyr Asp Phe
           20           25           30
Leu Lys Phe Phe Glu Leu Tyr Gly Ile Cys Met Phe Lys Thr Leu Thr
           35           40           45
Cys Leu Val Val Thr Thr Leu Ile Phe Ile Asn Leu Leu Ser Leu *
 50           55           60           63

```

&lt;210&gt; 1198

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1198

```

Met Leu Gly Pro Pro Glu Ala Arg Leu Ser Leu Cys Ile Leu Leu Trp
 1           5           10           15
Ile Ser Ile Leu Cys Pro Trp Tyr Arg Phe Thr Leu Tyr Cys Ser Ser
           20           25           30
Trp Pro Tyr Pro Ile Phe Asp Ser Gly Tyr Arg Pro Leu Phe Gly Thr
           35           40           45
Thr Leu Leu Phe *
 50           52

```

&lt;210&gt; 1199

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(50)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1199

```

Met Leu Arg Leu Gly Leu Cys Ala Ala Ala Leu Leu Cys Val Cys Arg
 1           5           10           15
Pro Gly Ala Val Arg Ala Asp Cys Trp Leu Ile Glu Gly Asp Lys Gly
           20           25           30
Tyr Val Trp Leu Ala Ile Cys Asn Gln Asn Gln Pro Ala Tyr Glu Thr
           35           40           45
Xaa Pro
 50

```

&lt;210&gt; 1200

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1200

```

Met Gly Trp Ser Cys Leu Ala Ile Leu Ser Ser Ala Ile Gly His Leu
 1           5           10           15
Ile Cys Leu Trp Pro Phe Ala Met Val Val Ala Leu Phe Pro Tyr Leu
           20           25           30
Gly Tyr Phe Ser Gly Ser Leu Ser Thr Gln Ile Gly Ser Asp Leu Pro
      35           40           45           48
*
```

&lt;210&gt; 1201

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1201

```

Met Trp Ala Gly Tyr Val Ile Tyr Thr Leu Phe Cys Arg Phe Ser Phe
 1           5           10           15
Ser Leu Ile Ser Ile Arg Ile Arg Lys Leu Gly Ser Ile Gly Phe Glu
           20           25           30
Leu Pro Leu Gly Asn Asn Ser Gln Leu Gly Cys Pro Leu *
      35           40           45
```

&lt;210&gt; 1202

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1202

```

Met Pro Leu Pro Trp Ser Leu Ala Leu Pro Leu Leu Leu Ser Trp Val
 1           5           10           15
Ala Gly Gly Phe Gly Asn Ala Ala Ser Ala Arg His His Gly Leu Leu
           20           25           30
Ala Ser Ala Arg Gln Pro Gly Val Cys His Tyr Gly Thr Lys Leu Ala
           35           40           45
Cys Cys Tyr Gly Trp Arg Arg Asn Ser Lys Gly Val Cys Glu Ala Thr
           50           55           60
Cys Glu Pro Gly Cys Lys Phe Gly Glu Cys Val Gly Pro Asn Lys Cys
           65           70           75           80
Arg Cys Phe Pro Gly Tyr Thr Gly Lys Thr Cys Ser Gln Asp Val Asn
           85           90           95
Glu Cys Gly Met Lys Pro Arg Pro Cys Gln His Arg Cys Val Asn Thr
           100          105          110
His Gly Ser Tyr Lys Cys Phe Cys Leu Ser Gly His Met Leu Met Pro
           115          120          125
Asp Ala Thr Cys Val Asn Ser Arg Thr Cys Ala Met Ile Asn Cys Gln
           130          135          140
Tyr Ser Cys Glu Asp Thr Glu Glu Gly Pro Gln Cys Leu Cys Pro Ser
           145          150          155          160
Ser Gly Leu Arg Leu Ala Pro Asn Gly Arg Asp Cys Leu Asp Ile Asp
```

```

      165      170      175
Glu Cys Ala Ser Gly Lys Val Ile Cys Pro Tyr Asn Arg Arg Cys Val
      180      185      190
Asn Thr Phe Gly Ser Tyr Tyr Cys Lys Cys His Ile Gly Phe Glu Leu
      195      200      205
Gln Tyr Ile Ser Gly Arg Tyr Asp Cys Ile Asp Ile Asn Glu Cys Thr
      210      215      220
Met Asp Ser His Thr Cys Ser His His Ala Asn Cys Phe Asn Thr Gln
      225      230      235
Gly Ser Phe Lys Cys Lys Cys Lys Gln Gly Tyr Lys Gly Asn Gly Leu
      245      250      255
Arg Cys Ser Ala Ile Pro Glu Asn Ser Val Lys Glu Val Leu Arg Ala
      260      265      270
Pro Gly Thr Ile Lys Asp Arg Ile Lys Lys Leu Leu Ala His Lys Asn
      275      280      285
Ser Met Lys Lys Lys Ala Lys Ile Lys Asn Val Thr Pro Glu Pro Thr
      290      295      300
Arg Thr Pro Thr Pro Lys Val Asn Leu Gln Pro Phe Asn Tyr Glu Glu
      305      310      315
Ile Val Ser Arg Gly Gly Asn Ser His Gly Gly *
      325      330      331

```

```

<210> 1203
<211> 825
<212> PRT
<213> Homo sapiens

```

```

      <400> 1203
Met Ala Arg Leu Gly Asn Cys Ser Leu Thr Trp Ala Ala Leu Ile Ile
  1      5      10      15
Leu Leu Leu Pro Gly Ser Leu Glu Glu Cys Gly His Ile Ser Val Ser
      20      25      30
Ala Pro Ile Val His Leu Gly Asp Pro Ile Thr Ala Ser Cys Ile Ile
      35      40      45
Lys Gln Asn Cys Ser His Leu Asp Pro Glu Pro Gln Ile Leu Trp Arg
      50      55      60
Leu Gly Ala Glu Leu Gln Pro Gly Gly Arg Gln Gln Arg Leu Ser Asp
      65      70      75      80
Gly Thr Gln Glu Ser Ile Ile Thr Leu Pro His Leu Asn His Thr Gln
      85      90      95
Ala Phe Leu Ser Cys Cys Leu Asn Trp Gly Asn Ser Leu Gln Ile Leu
      100      105      110
Asp Gln Val Glu Leu Arg Ala Gly Tyr Pro Pro Ala Ile Pro His Asn
      115      120      125
Leu Ser Cys Leu Met Asn Leu Thr Thr Ser Ser Leu Ile Cys Gln Trp
      130      135      140
Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Thr Leu Lys Ser
      145      150      155      160
Phe Lys Ser Arg Gly Asn Cys Gln Thr Gln Gly Asp Ser Ile Leu Asp
      165      170      175
Cys Val Pro Lys Asp Gly Gln Ser His Cys Cys Ile Pro Arg Lys His
      180      185      190
Leu Leu Leu Tyr Gln Asn Met Gly Ile Trp Val Gln Ala Glu Asn Ala
      195      200      205
Leu Gly Thr Ser Met Ser Pro Gln Leu Cys Leu Asp Pro Met Asp Val
      210      215      220

```

Val Lys Leu Glu Pro Pro Met Leu Arg Thr Met Asp Pro Ser Pro Glu  
 225 230 235 240  
 Ala Ala Pro Pro Gln Ala Gly Cys Leu Gln Leu Cys Trp Glu Pro Trp  
 245 250 255  
 Gln Pro Gly Leu His Ile Asn Gln Lys Cys Glu Leu Arg His Lys Pro  
 260 265 270  
 Gln Arg Gly Glu Ala Ser Trp Ala Leu Val Gly Pro Leu Pro Leu Glu  
 275 280 285  
 Ala Leu Gln Tyr Glu Leu Cys Gly Leu Leu Pro Ala Thr Ala Tyr Thr  
 290 295 300  
 Leu Gln Ile Arg Cys Ile Arg Trp Pro Leu Pro Gly His Trp Ser Asp  
 305 310 315 320  
 Trp Ser Pro Ser Leu Glu Leu Arg Thr Thr Glu Arg Ala Pro Thr Val  
 325 330 335  
 Arg Leu Asp Thr Trp Trp Arg Gln Arg Gln Leu Asp Pro Arg Thr Val  
 340 345 350  
 Gln Leu Phe Trp Lys Pro Val Pro Leu Glu Glu Asp Ser Gly Arg Ile  
 355 360 365  
 Gln Gly Tyr Val Val Ser Trp Arg Pro Ser Gly Gln Ala Gly Ala Ile  
 370 375 380  
 Leu Pro Leu Cys Asn Thr Thr Glu Leu Ser Cys Thr Phe His Leu Pro  
 385 390 395 400  
 Ser Glu Ala Gln Glu Val Ala Leu Val Ala Tyr Asn Ser Ala Gly Thr  
 405 410 415  
 Ser Arg Pro Thr Pro Val Val Phe Ser Glu Ser Arg Gly Pro Ala Leu  
 420 425 430  
 Thr Arg Leu His Ala Met Ala Arg Asp Pro His Ser Leu Trp Val Gly  
 435 440 445  
 Trp Glu Pro Pro Asn Pro Trp Pro Gln Gly Tyr Val Ile Glu Trp Gly  
 450 455 460  
 Leu Gly Pro Pro Ser Ala Ser Asn Ser Asn Lys Thr Trp Arg Met Glu  
 465 470 475 480  
 Gln Asn Gly Arg Ala Thr Gly Phe Leu Leu Lys Glu Asn Ile Arg Pro  
 485 490 495  
 Phe Gln Leu Tyr Glu Ile Ile Val Thr Pro Leu Tyr Gln Asp Thr Met  
 500 505 510  
 Gly Pro Ser Gln His Val Tyr Ala Tyr Ser Gln Glu Met Ala Pro Ser  
 515 520 525  
 His Ala Pro Glu Leu His Leu Lys His Ile Gly Lys Thr Trp Ala Gln  
 530 535 540  
 Leu Glu Trp Val Pro Glu Pro Pro Glu Leu Gly Lys Ser Pro Leu Thr  
 545 550 555 560  
 His Tyr Thr Ile Phe Trp Thr Asn Ala Gln Asn Gln Ser Phe Ser Ala  
 565 570 575  
 Ile Leu Asn Ala Ser Ser Arg Gly Phe Val Leu His Gly Leu Glu Pro  
 580 585 590  
 Ala Ser Leu Tyr His Ile His Leu Met Ala Ala Ser Gln Ala Gly Ala  
 595 600 605  
 Thr Asn Ser Thr Val Leu Thr Leu Met Thr Leu Thr Pro Ala Pro Thr  
 610 615 620  
 Gly Arg Ile Pro Ser Gly Gln Val Ser Gln Thr Gln Leu Thr Ala Ala  
 625 630 635 640  
 Trp Ala Pro Gly Cys Pro Gln Ser Trp Arg Arg Met Pro Ser Ser Cys  
 645 650 655  
 Pro Ala Leu Ala Arg His Pro Ser Pro Ser Ser Gln Cys Trp Arg Arg  
 660 665 670  
 Met Lys Arg Ser Arg Cys Pro Gly Ser Pro Ile Thr Ala Gln Arg Pro  
 675 680 685  
 Val Ala Ser Pro Leu Trp Ser Arg Pro Met Cys Ser Arg Gly Thr Gln

```

      690              695              700
Glu Gln Phe Pro Pro Ser Pro Asn Pro Ser Leu Ala Pro Ala Ile Arg
705              710              715              720
Ser Phe Met Gly Ser Cys Trp Ala Ala Pro Gln Ala Gln Gly Gln Gly
      725              730              735
Thr Ile Ser Ala Val Thr Pro Leu Ser Pro Ser Trp Arg Ala Ser Pro
      740              745              750
Pro Ala Pro Ser Pro Met Arg Thr Ser Gly Ser Arg Pro Ala Pro Trp
      755              760              765
Gly Pro Leu Val Thr Pro Ser Pro Lys Ser Gln Glu Asp Asp Cys Val
      770              775              780
Phe Gly Pro Leu Leu Asn Phe Pro Pro Ser Cys Arg Gly Ser Gly Ser
785              790              795              800
Met Gly Trp Arg Arg Trp Gly Ala Ser Arg Ala Ser Leu Gly Phe Pro
      805              810              815
Ser Trp Ala Cys Leu Leu Lys Ala *
      820              824

```

```

<210> 1204
<211> 48
<212> PRT
<213> Homo sapiens

```

```

      <400> 1204
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
  1              5              10              15
Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
      20              25              30
Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu *
      35              40              45              47

```

```

<210> 1205
<211> 46
<212> PRT
<213> Homo sapiens

```

```

      <400> 1205
Met Gly Ser Phe Ser Phe Ile Leu Val Leu Phe Ile Asp Cys Leu Cys
  1              5              10              15
Met Phe Pro Ser Val Leu Val Gln Leu Leu Cys Thr Tyr Ser Ser Leu
      20              25              30
Met Lys Thr Pro Leu Trp Leu Gln Ala Arg Ser Ser His *
      35              40              45

```

```

<210> 1206
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1206

```

```

Met Gln Trp Cys Asn Leu Thr Ala Thr Ser Ala Phe Gln Ile Glu Ala
 1          5          10          15
Ile Leu Leu Pro Gln Leu Ser Pro Val Ala Gly Ile Thr Gly Thr Cys
          20          25          30
Tyr His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His
          35          40          45
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
          50          55          60
Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser His His Ala
          65          70          75          80
Gln Pro Leu Lys Gly Thr Phe *
          85          87

```

```

<210> 1207
<211> 186
<212> PRT
<213> Homo sapiens

```

```

<400> 1207
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1          5          10          15
Val Met Ser Pro Cys Gly Gly Glu Asp Ile Val Ala Asp His Val Ala
          20          25          30
Ser Tyr Gly Val Asn Leu Tyr Gln Ser Tyr Gly Pro Ser Gly Gln Tyr
          35          40          45
Ser His Glu Phe Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Glu Arg
          50          55          60
Lys Glu Thr Val Trp Gln Leu Pro Leu Phe Arg Arg Phe Arg Arg Phe
          65          70          75          80
Asp Pro Gln Phe Ala Leu Thr Asn Ile Ala Val Leu Lys His Asn Leu
          85          90          95
Asn Ile Val Ile Lys Arg Ser Asn Ser Thr Ala Ala Thr Asn Glu Val
          100          105          110
Pro Glu Val Thr Val Phe Ser Lys Ser Pro Val Thr Leu Gly Gln Pro
          115          120          125
Asn Thr Leu Ile Cys Leu Val Asp Asn Ile Phe Pro Pro Val Val Asn
          130          135          140
Ile Thr Trp Leu Ser Asn Gly His Ser Val Thr Glu Gly Val Ser Glu
          145          150          155          160
Thr Arg Pro Ser Ser Pro Lys Ser Asp His Phe Leu Leu Gln Asp Gln
          165          170          175
Val Thr Ser Pro Ser Phe Pro Phe Glu *
          180          185

```

```

<210> 1208
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1208
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1          5          10          15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser

```



Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu \*

20 25 30

35 40 45

```
<210> 1209
<211> 199
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1210
<211> 59
<212> PRT
<213> Homo sapiens
```

```

Met Leu Val Thr Arg Pro Ser Gly Asn Thr Trp Ile Pro Phe Phe Cys
  1          5          10          15
Trp Leu Leu Phe Cys Val Val Glu Leu Leu Ser Pro Gly Asn Leu Gly
      20          25          30
Pro Ser Val Leu Glu Val Val Leu Pro Asp Val Phe Lys Leu Asp Leu
      35          40          45
Leu Ser Ser Leu Leu Asp Val Gly Ser Leu *
      50          55          58

```

<210> 1211  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens  
  
 <221> misc\_feature  
 <222> (1)...(227)  
 <223> Xaa = any amino acid or nothing

<400> 1211  
 Met Ala Ser Ile Cys Ser Trp Arg Val Met Leu Ala Trp Ala Ala Cys  
 1 5 10 15  
 Trp Val Arg Ala His Ala Ala Leu Ser Gly His Pro Arg Ser Thr Phe  
 20 25 30  
 Ser Leu Trp Leu Ser Gly Ile Ser Leu Pro Xaa Pro Ile Phe Leu Pro  
 35 40 45  
 Met Ala Val Ser Leu Leu Thr Pro Lys Asp Val Lys Tyr Ala Arg Ser  
 50 55 60  
 Pro Asn Cys Phe Lys Ala Ala Leu Asn Ile Pro Asp Pro Gly Ala Val  
 65 70 75 80  
 His Leu Ile Ile Ala Leu Leu Leu Thr Asp Gly Ala Ile Pro Leu Leu  
 85 90 95  
 Gln Pro Ala Arg Val Lys Lys Ser Asn Ala His Val Phe Leu His Phe  
 100 105 110  
 Ala Gly Gly Asp Leu Leu Pro Ser Asn Gly Gly His Lys Ile Leu Ile  
 115 120 125  
 Trp Ser Arg Gly Trp Arg Gln Gly Leu Gly Gly Phe Gly Ile Ile Ile  
 130 135 140  
 Leu Ala Asp Asn Asp Leu Val Trp Ser Trp Gly Gln Ser Trp Arg His  
 145 150 155 160  
 Gly Cys Leu Leu Gly Val Gly Ala Leu Ser Ala Leu Leu Leu His His  
 165 170 175  
 Leu Asn Pro His Pro Tyr Leu Val Leu Gly Cys Pro Gly Pro Ala Gly  
 180 185 190  
 Lys Glu Ala Pro Pro Pro Ser Pro Val Cys His Pro Pro His Gln Thr  
 195 200 205  
 Arg Pro Pro Ser Gln Leu Pro His Ser Pro Gln Thr Phe His Ser Ala  
 210 215 220  
 Pro Glu \*  
 225 226

<210> 1212  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 1212  
 Met Cys Val Ser Val Arg Val Cys Val Cys Val Cys Val Cys Ala Arg  
 1 5 10 15  
 Val Cys Ala Arg Leu Cys Val Cys Val His Ala Arg Leu Cys Val His  
 20 25 30  
 Val Arg Val Ser Ala Arg Val Ser Val Tyr Val Cys Thr Arg Val Ser  
 35 40 45  
 Val Cys Val His Ala Arg Ala Arg His His Arg Ser Ile \*

50

55

60 61

&lt;210&gt; 1213

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1213

```

Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
 1           5           10           15
Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
          20           25           30
Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
          35           40           45
Ser Glu Glu Lys Lys Ser *
    50           54

```

&lt;210&gt; 1214

&lt;211&gt; 642

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1214

```

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
 1           5           10           15
Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
          20           25           30
Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
          35           40           45
Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
          50           55           60
Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
          65           70           75           80
Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
          85           90           95
Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
          100           105           110
Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
          115           120           125
Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
          130           135           140
Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
          145           150           155           160
Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn
          165           170           175
Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
          180           185           190
Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
          195           200           205
Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
          210           215           220
Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
          225           230           235           240

```

```
<210> 1215
<211> 85
<212> PRT
<213> Homo sapiens
```

<400> 1215  
 Met Leu Phe Leu Thr Leu Ile Ser Phe Cys Gly Phe Leu Leu Leu His  
 1 5 10 15  
 Arg Leu Thr Ser Met Val Arg Leu Phe Leu Gly Ala Ala Ile Gln Lys  
 20 25 30  
 Ile Leu Ser Lys Arg Leu Glu Phe Ser Leu Leu Pro Leu Val Ser Phe  
 35 40 45  
 Ala Gly Ser Val Asn Met Ala Gly Pro Cys Thr Ala Asn Ala Gly Pro  
 50 55 60  
 His Gly Gly Leu Gly Lys Pro Gly Arg Leu Cys Gly Ser Phe Arg Ser  
 65 70 75 80  
 Ser Arg Ser Gln \*  
 84

<210> 1216  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens

<400> 1216  
 Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala Ala  
 1 5 10 15  
 Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu Leu  
 20 25 30  
 Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln Asn Leu Phe  
 35 40 45  
 Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala Thr Ile Ser Cys  
 50 55 60  
 Gln Val Asn Lys Ser Asp Ser Val Ile Gln Leu Leu Asn Pro Asn  
 65 70 75 80  
 Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu Lys Asp Ser Arg  
 85 90 95  
 Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys Val Ser Leu Thr  
 100 105 110  
 Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys Gln Leu Tyr Thr  
 115 120 125  
 Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val Leu Val Pro Pro  
 130 135 140  
 Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala Val Glu Gly Glu  
 145 150 155 160  
 Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys Pro Ala Thr Thr  
 165 170 175  
 Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly Lys Ser Glu Val  
 180 185 190  
 Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln Leu Met Leu Lys  
 195 200 205  
 Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys Gln Val Glu His  
 210 215 220  
 Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr Leu Glu Val Gln  
 225 230 235 240  
 Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro Leu Gln Gly Leu  
 245 250 255  
 Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu Ala Ile Gly Lys  
 260 265 270

```

Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp Asp Glu Met Pro
      275                280                285
Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile Asn Asn Leu Asn
      290                295                300
Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser Asn Ile Val Gly
      305                310                315                320
Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp Pro Pro Thr Thr
      325                330                335
Ile Pro Pro Pro Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
      340                345                350
Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly Glu Glu Gly Ser
      355                360                365
Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val Val Ala Val Val
      370                375                380
Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly Arg Tyr Phe Ala
      385                390                395                400
Gln Thr *
      402

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<210> 1217
<211> 49
<212> PRT
<213> Homo sapiens

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<400> 1217
Met Arg Ala Trp Ala Trp Pro Phe Cys Thr Ser Val Thr Ser Leu Ser
  1          5          10          15
Ala Met Ala Ser Pro Trp Arg Arg Trp Pro Arg Arg Pro Ala Ser Arg
      20          25          30
Thr Ala Ser Arg Ala Pro Ser Ala Gly Ile Ser Gly Ser Thr Ala Pro
      35          40          45          48
*
```

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<210> 1218
<211> 304
<212> PRT
<213> Homo sapiens

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```

<400> 1218
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
  1          5          10          15
Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
      20          25          30
Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
      35          40          45
Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
      50          55          60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65          70          75          80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85          90          95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

```

```

      100      105      110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115      120      125
Glu Val Leu Gly Asp Val His Val Leu Ala Pro Ala Val Pro Ser Cys
      130      135      140
Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys
      145      150      155      160
Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp
      165      170      175
Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn
      180      185      190
Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr
      195      200      205
Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser
      210      215      220
Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu
      225      230      235      240
Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val Val Ala Leu Val Ile
      245      250      255
Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe
      260      265      270
Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr
      275      280      285
Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys Ser Phe Ile Ile *
      290      295      300      303

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&lt;210&gt; 1219

&lt;211&gt; 1126

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1219

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Met Trp Phe Leu Phe Leu Cys Pro Asn Leu Trp Ala Met Pro Val Gln
  1      5      10      15
Ile Ile Met Gly Val Ile Leu Leu Tyr Asn Leu Leu Gly Ser Ser Ala
      20      25      30
Leu Val Gly Ala Ala Val Ile Val Leu Leu Ala Pro Ile Gln Tyr Phe
      35      40      45
Ile Ala Thr Lys Leu Ala Glu Ala Gln Lys Ser Thr Leu Asp Tyr Ser
      50      55      60
Thr Glu Arg Leu Lys Lys Thr Asn Glu Ile Leu Lys Gly Ile Lys Leu
      65      70      75      80
Leu Lys Leu Tyr Ala Trp Glu His Ile Phe Cys Lys Ser Val Glu Glu
      85      90      95
Thr Arg Met Lys Glu Leu Ser Ser Leu Lys Thr Phe Ala Leu Tyr Thr
      100      105      110
Ser Leu Ser Ile Phe Met Asn Ala Ala Ile Pro Ile Ala Ala Val Leu
      115      120      125
Ala Thr Phe Val Thr His Ala Tyr Ala Ser Gly Asn Asn Leu Lys Pro
      130      135      140
Ala Glu Ala Phe Ala Ser Leu Ser Leu Phe His Ile Leu Val Thr Pro
      145      150      155      160
Leu Phe Leu Leu Ser Thr Val Val Arg Phe Ala Val Lys Ala Ile Ile
      165      170      175
Ser Val Gln Lys Leu Asn Glu Phe Leu Leu Ser Asp Glu Ile Gly Asp
      180      185      190

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```

Asp Ser Trp Arg Thr Gly Glu Ser Ser Leu Pro Phe Glu Ser Cys Lys
    195                200                205
Lys His Thr Gly Val Gln Pro Lys Thr Ile Asn Arg Lys Gln Pro Gly
    210                215                220
Arg Tyr His Leu Asp Ser Tyr Glu Gln Ser Thr Arg Arg Leu Arg Pro
    225                230                235                240
Ala Glu Thr Glu Asp Ile Ala Ile Lys Val Thr Asn Gly Tyr Phe Ser
    245                250                255
Trp Gly Ser Gly Leu Ala Thr Leu Ser Asn Ile Asp Ile Arg Ile Pro
    260                265                270
Thr Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly Cys Gly Lys Ser
    275                280                285
Ser Leu Leu Leu Ala Ile Leu Gly Glu Met Gln Thr Leu Glu Gly Lys
    290                295                300
Val His Trp Ser Asn Val Asn Glu Ser Glu Pro Ser Phe Glu Ala Thr
    305                310                315                320
Arg Ser Arg Asn Arg Tyr Ser Val Ala Tyr Ala Ala Gln Lys Pro Trp
    325                330                335
Leu Leu Asn Ala Thr Val Glu Glu Asn Ile Thr Phe Gly Ser Pro Phe
    340                345                350
Asn Lys Gln Arg Tyr Lys Ala Val Thr Asp Ala Cys Ser Leu Gln Pro
    355                360                365
Asp Ile Asp Leu Leu Pro Phe Gly Asp Gln Thr Glu Ile Gly Glu Arg
    370                375                380
Gly Ile Asn Leu Ser Gly Gly Gln Arg Gln Arg Ile Cys Val Ala Arg
    385                390                395                400
Ala Leu Tyr Gln Asn Thr Asn Ile Val Phe Leu Asp Asp Pro Phe Ser
    405                410                415
Ala Leu Asp Ile His Leu Ser Asp His Leu Met Gln Glu Gly Ile Leu
    420                425                430
Lys Phe Leu Gln Asp Asp Lys Arg Thr Leu Val Leu Val Thr His Lys
    435                440                445
Leu Gln Tyr Leu Thr His Ala Asp Trp Ile Ile Ala Met Lys Asp Gly
    450                455                460
Ser Val Leu Arg Glu Gly Thr Leu Lys Asp Ile Gln Thr Lys Asp Val
    465                470                475                480
Glu Leu Tyr Glu His Trp Lys Thr Leu Met Asn Arg Gln Asp Gln Glu
    485                490                495
Leu Glu Lys Asp Met Glu Ala Asp Gln Thr Thr Leu Glu Arg Lys Thr
    500                505                510
Leu Arg Arg Ala Met Tyr Ser Arg Glu Ala Lys Ala Gln Met Glu Asp
    515                520                525
Glu Asp Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Asp Asn Met Ser
    530                535                540
Thr Val Met Arg Leu Arg Thr Lys Met Pro Trp Lys Thr Cys Trp Arg
    545                550                555                560
Tyr Leu Thr Ser Gly Gly Phe Phe Leu Leu Ile Leu Met Ile Phe Ser
    565                570                575
Lys Leu Leu Lys His Ser Val Ile Val Ala Ile Asp Tyr Trp Leu Ala
    580                585                590
Thr Trp Thr Ser Glu Tyr Ser Ile Asn Asn Thr Gly Lys Ala Asp Gln
    595                600                605
Thr Tyr Tyr Val Ala Gly Phe Ser Ile Leu Cys Gly Ala Gly Ile Phe
    610                615                620
Leu Cys Leu Val Thr Ser Leu Thr Val Glu Trp Met Gly Leu Thr Ala
    625                630                635                640
Ala Lys Asn Leu His His Asn Leu Leu Asn Lys Ile Ile Leu Gly Pro
    645                650                655
Ile Arg Phe Phe Asp Thr Thr Pro Leu Gly Leu Ile Leu Asn Arg Phe

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        660                665                670
Ser Ala Asp Thr Asn Ile Ile Asp Gln His Ile Pro Pro Thr Leu Glu
        675                680                685
Ser Leu Thr Arg Ser Thr Leu Leu Cys Leu Ser Ala Ile Gly Met Ile
        690                695                700
Ser Tyr Ala Thr Pro Val Phe Leu Val Ala Leu Leu Pro Leu Gly Val
705                710                715                720
Ala Phe Tyr Phe Ile Gln Lys Tyr Phe Arg Val Ala Ser Lys Asp Leu
        725                730                735
Gln Glu Leu Asp Asp Ser Thr Gln Leu Pro Leu Leu Cys His Phe Ser
        740                745                750
Glu Thr Ala Glu Gly Leu Thr Thr Ile Arg Ala Phe Arg His Glu Thr
        755                760                765
Arg Phe Lys Gln Arg Met Leu Glu Leu Thr Asp Thr Asn Asn Ile Ala
        770                775                780
Tyr Leu Phe Leu Ser Ala Ala Asn Arg Trp Leu Glu Val Arg Thr Asp
785                790                795                800
Tyr Leu Gly Ala Cys Ile Val Leu Thr Ala Ser Ile Ala Ser Ile Ser
        805                810                815
Gly Ser Ser Asn Ser Gly Leu Val Gly Leu Gly Leu Leu Tyr Ala Leu
        820                825                830
Thr Ile Thr Asn Tyr Leu Asn Trp Val Val Arg Asn Leu Ala Asp Leu
        835                840                845
Glu Val Gln Met Gly Ala Val Lys Lys Val Asn Ser Phe Leu Thr Met
        850                855                860
Glu Ser Glu Asn Tyr Glu Gly Thr Met Asp Pro Ser Gln Val Pro Glu
865                870                875                880
His Trp Pro Gln Glu Gly Glu Ile Lys Ile His Asp Leu Cys Val Arg
        885                890                895
Tyr Glu Asn Asn Leu Lys Pro Val Leu Lys His Val Lys Ala Tyr Ile
        900                905                910
Lys Pro Gly Gln Lys Val Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys
        915                920                925
Ser Ser Leu Ser Leu Ala Phe Phe Arg Met Val Asp Ile Phe Asp Gly
        930                935                940
Lys Ile Val Ile Asp Gly Ile Asp Ile Ser Lys Leu Pro Leu His Thr
945                950                955                960
Leu Arg Ser Arg Leu Ser Ile Ile Leu Gln Asp Pro Ile Leu Phe Ser
        965                970                975
Gly Ser Ile Arg Phe Asn Leu Asp Pro Glu Cys Lys Cys Thr Asp Asp
        980                985                990
Arg Leu Trp Glu Ala Leu Glu Ile Ala Gln Leu Lys Asn Met Val Lys
        995                1000                1005
Ser Leu Pro Gly Gly Leu Asp Ala Val Val Thr Glu Gly Gly Glu Asn
1010                1015                1020
Phe Ser Val Gly Gln Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val
1025                1030                1035                1040
Arg Lys Ser Ser Ile Leu Ile Met Asp Glu Ala Thr Ala Ser Ile Asp
        1045                1050                1055
Met Ala Thr Glu Asn Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala
        1060                1065                1070
Asp Arg Thr Val Val Thr Met Ala His Arg Val Ser Ser Ile Met Asp
        1075                1080                1085
Ala Gly Leu Val Leu Val Phe Ser Glu Gly Ile Leu Val Glu Cys Asp
        1090                1095                1100
Thr Val Pro Asn Leu Phe Ala His Lys Asn Gly Pro Phe Ser Thr Leu
1105                1110                1115                1120
Val Met Thr Asn Lys *
        1125

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<210> 1220  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1220  
 Met Ser Ser Val Ser Leu Ile Glu Phe Pro Leu Tyr Met Ile Cys Pro  
 1 5 10 15  
 Phe Ala Leu Ala Phe Lys Thr Phe Ser Leu Ala Leu Ile Leu Asp  
 20 25 30  
 Ile Leu Leu Thr Ile Phe Leu Asp Asp Ile His Phe Val \*  
 35 40 45

<210> 1221  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1221  
 Met Leu Ile Leu Leu Leu Glu Phe Gly Ile Thr Ile Ile Lys Val  
 1 5 10 15  
 Thr Cys Arg Leu Arg Ile Val Leu Cys Tyr Arg Lys Tyr Lys Thr Lys  
 20 25 30  
 Arg Asn Lys Lys Leu Lys Leu Gly Asn Asn Ser Lys Phe Gln Arg Met  
 35 40 45  
 Cys Leu Arg Thr Ser Phe His \*  
 50 55

<210> 1222  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 1222  
 Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala  
 1 5 10 15  
 Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val  
 20 25 30  
 Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met  
 35 40 45  
 Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val  
 50 55 60  
 Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys  
 65 70 75 80  
 Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val  
 85 90 95  
 Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp  
 100 105 110  
 Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu

```

      115      120      125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
      130      135      140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
145      150      155      160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165      170      175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180      185      190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195      200      205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
210      215      220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
225      230      235      240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245      250      252

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<210> 1223
<211> 858
<212> PRT
<213> Homo sapiens

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      <400> 1223
Met Lys Met Leu Thr Arg Leu Gln Val Leu Thr Leu Ala Leu Phe Ser
 1      5      10      15
Lys Gly Phe Leu Leu Ser Leu Gly Asp His Asn Phe Leu Arg Arg Glu
      20      25      30
Ile Lys Ile Glu Gly Asp Leu Val Leu Gly Gly Leu Phe Pro Ile Asn
      35      40      45
Glu Lys Gly Thr Gly Thr Glu Cys Gly Arg Ile Asn Glu Asp Arg
50      55      60
Gly Ile Gln Arg Leu Glu Ala Met Leu Phe Ala Ile Asp Glu Ile Asn
65      70      75      80
Lys Asp Asp Tyr Leu Leu Pro Gly Val Lys Leu Gly Val His Ile Leu
      85      90      95
Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Glu Phe
      100      105      110
Val Arg Ala Ser Leu Thr Lys Val Asp Glu Ala Glu Tyr Met Cys Pro
      115      120      125
Asp Gly Ser Tyr Ala Ile Gln Glu Asn Ile Pro Leu Leu Ile Ala Gly
      130      135      140
Val Ile Gly Gly Ser Tyr Ser Arg Val Ser Ile Gln Gly Ala Asn Leu
145      150      155      160
Leu Arg Leu Phe Gln Ile Pro Gln Ile Arg Tyr Ala Ser Thr Ser Ala
      165      170      175
Lys Leu Ser Asp Lys Ser Arg Tyr Asp Tyr Phe Ala Arg Thr Val Pro
      180      185      190
Pro Asp Phe Tyr Gln Ala Lys Ala Met Ala Glu Ile Leu Arg Phe Phe
      195      200      205
Asn Trp Thr Tyr Val Ser Thr Val Ala Ser Glu Gly Asp Tyr Gly Glu
210      215      220
Thr Gly Ile Glu Ala Phe Glu Gln Glu Ala Arg Leu Arg Asn Ile Cys
225      230      235      240
Ile Ala Thr Ala Glu Lys Val Gly Arg Ser Asn Ile Arg Lys Ser Tyr
      245      250      255

```

Asp Ser Val Ile Arg Glu Leu Leu Gln Lys Pro Asn Ala Arg Val Val  
 260 265 270  
 Val Leu Phe Met Arg Ser Asp Asp Ser Arg Glu Leu Ile Ala Ala Ala  
 275 280 285  
 Ser Arg Ala Asn Ala Ser Phe Thr Trp Val Ala Ser Asp Gly Trp Gly  
 290 295 300  
 Ala Gln Glu Ser Ile Ile Lys Gly Ser Glu His Val Ala Tyr Gly Ala  
 305 310 315 320  
 Ile Thr Leu Glu Leu Ala Ser Gln Pro Val Arg Gln Phe Asp Arg Tyr  
 325 330 335  
 Phe Gln Ser Leu Asn Pro Tyr Asn Asn His Arg Asn Pro Trp Phe Arg  
 340 345 350  
 Asp Phe Trp Glu Gln Lys Phe Gln Cys Ser Leu Gln Asn Lys Arg Asn  
 355 360 365  
 His Arg Arg Val Cys Asp Lys His Leu Ala Ile Asp Ser Ser Asn Tyr  
 370 375 380  
 Glu Gln Glu Ser Lys Ile Met Phe Val Val Asn Ala Val Tyr Ala Met  
 385 390 395 400  
 Ala His Ala Leu His Lys Met Gln Arg Thr Leu Cys Pro Asn Thr Thr  
 405 410 415  
 Lys Leu Cys Asp Ala Met Lys Ile Leu Asp Gly Lys Lys Leu Tyr Lys  
 420 425 430  
 Asp Tyr Leu Leu Lys Ile Asn Phe Thr Ala Pro Phe Asn Pro Asn Lys  
 435 440 445  
 Asp Ala Asp Ser Ile Val Lys Phe Asp Thr Phe Gly Asp Gly Met Gly  
 450 455 460  
 Arg Tyr Asn Val Phe Asn Phe Gln Asn Val Gly Gly Lys Tyr Ser Tyr  
 465 470 475 480  
 Leu Lys Val Gly His Trp Ala Glu Thr Leu Ser Leu Asp Val Asn Ser  
 485 490 495  
 Ile His Trp Ser Arg Asn Ser Val Pro Thr Ser Gln Cys Ser Asp Pro  
 500 505 510  
 Cys Ala Pro Asn Glu Met Lys Asn Met Gln Pro Gly Asp Val Cys Cys  
 515 520 525  
 Trp Ile Cys Ile Pro Cys Glu Pro Tyr Glu Tyr Leu Ala Asp Glu Phe  
 530 535 540  
 Thr Cys Met Asp Cys Gly Ser Gly Gln Trp Pro Thr Ala Asp Leu Thr  
 545 550 555 560  
 Gly Cys Tyr Asp Leu Pro Glu Asp Tyr Ile Arg Trp Glu Asp Ala Trp  
 565 570 575  
 Ala Ile Gly Pro Val Thr Ile Ala Cys Leu Gly Phe Met Cys Thr Cys  
 580 585 590  
 Met Val Val Thr Val Phe Ile Lys His Asn Asn Thr Pro Leu Val Lys  
 595 600 605  
 Ala Ser Gly Arg Glu Leu Cys Tyr Ile Leu Leu Phe Gly Val Gly Leu  
 610 615 620  
 Ser Tyr Cys Met Thr Phe Phe Ile Ala Lys Pro Ser Pro Val Ile  
 625 630 635 640  
 Cys Ala Leu Arg Arg Leu Gly Leu Gly Ser Ser Phe Ala Ile Cys Tyr  
 645 650 655  
 Ser Ala Leu Leu Thr Lys Thr Asn Cys Ile Ala Arg Ile Phe Asp Gly  
 660 665 670  
 Val Lys Asn Gly Ala Gln Arg Pro Lys Phe Ile Ser Pro Ser Ser Gln  
 675 680 685  
 Val Phe Ile Cys Leu Gly Leu Ile Leu Val Gln Ile Val Met Val Ser  
 690 695 700  
 Val Trp Leu Ile Leu Glu Ala Pro Gly Thr Arg Arg Tyr Thr Leu Ala  
 705 710 715 720  
 Glu Lys Arg Glu Thr Val Ile Leu Lys Cys Asn Val Lys Asp Ser Ser

```

              725              730              735
Met Leu Ile Ser Leu Thr Tyr Asp Val Ile Leu Val Ile Leu Cys Thr
              740              745              750
Val Tyr Ala Phe Lys Thr Arg Lys Cys Pro Glu Asn Phe Asn Glu Ala
              755              760              765
Lys Phe Ile Gly Phe Thr Met Tyr Thr Thr Cys Ile Ile Trp Leu Ala
              770              775              780
Phe Leu Pro Ile Phe Tyr Val Thr Ser Ser Asp Tyr Arg Val Gln Thr
785              790              795              800
Thr Thr Met Cys Ile Ser Val Ser Leu Ser Gly Phe Val Val Leu Gly
              805              810              815
Cys Leu Phe Ala Pro Lys Val His Ile Ile Leu Phe Gln Pro Gln Lys
              820              825              830
Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
              835              840              845
Thr Gly Thr His Ile Leu Ser Val Leu *
              850              855              857

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<210> 1224
<211> 69
<212> PRT
<213> Homo sapiens

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```

<400> 1224
Met Ser His Met Val Pro Leu Ala Leu Leu Leu Pro Leu Phe Pro Thr
 1              5              10              15
Ser Arg Arg Ala Leu Pro Phe Leu Pro Leu Phe Phe Gly Leu Met
              20              25              30
Phe Pro Ala Thr Thr Asp Leu Pro Pro Pro His Pro Ser Ala Asp Leu
              35              40              45
Ala Val His Cys Arg His Gly Gly Leu Ile Ser Asp Arg Lys Leu Arg
              50              55              60
Leu Ser Glu Arg *
65              68

```

```

<210> 1225
<211> 55
<212> PRT
<213> Homo sapiens

```

```

<400> 1225
Met Cys Tyr His Thr Trp Leu Ile Phe Ile Phe Leu Val Glu Met Gly
 1              5              10              15
Phe Tyr His Val Gly Gln Ala Gly Phe Lys Leu Leu Ala Ser Ser Gly
              20              25              30
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
              35              40              45
His Ala Arg Pro Thr Phe *
              50              54

```

```

<210> 1226

```

<211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1226  
 Met Ile Leu Ser Leu Leu Lys Phe Phe Pro Leu Leu Ser Ser Asp Thr  
 1 5 10 15  
 Pro Asn Ser Ser Val Pro Leu Leu Thr Thr Pro Arg Asp Pro Pro Tyr  
 20 25 30  
 His Leu Ser Pro Cys Ser Ser Ser Tyr Phe Val Lys Glu Gly Phe Ser  
 35 40 45  
 Val Val \*  
 50

<210> 1227  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1227  
 Met Ile Leu Phe Cys Val Met Val Phe Ile Leu Phe Ile Thr Phe His  
 1 5 10 15  
 Leu Gln Leu Pro Thr Val Gly Asp Val Thr Tyr Cys Phe Cys Ser Asn  
 20 25 30  
 Lys Leu Arg Lys Thr Arg Glu Leu Lys Lys Ile Ser Ser Asn \*  
 35 40 45 46

<210> 1228  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1228  
 Met Phe Ser Thr Ala Phe Trp Pro Pro Phe Leu Asn Pro Ser Leu Met  
 1 5 10 15  
 Phe Phe Thr Leu Leu Cys Ser Asp Phe Met Pro Cys Glu Ala Val Cys  
 20 25 30  
 Ser Ser Ile Ile Tyr Ser Phe Ile Pro Val Thr Lys Thr Gln Gly Ala  
 35 40 45  
 Ala Pro His Thr Arg Gly Pro Gln Pro His Thr \*  
 50 55 59

<210> 1229  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1229  
 Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val

```

      1           5           10           15
Ala Leu Ala Gly Ala Gly Ala Ala Val Ile Ala Met Val His Tyr Leu
      20           25           30
Met Val Leu Ser Ala Asn Trp Ala Tyr Val Lys Asp Ala Cys Arg Met
      35           40           45
Ala Glu Val *
      50  51

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```

<210> 1230
<211> 362
<212> PRT
<213> Homo sapiens

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```

      <400> 1230
Met Pro Val Ile Trp Ser Ala Leu Ser Ala Val Leu Leu Leu Ala Ser
      1           5           10           15
Ser Tyr Phe Val Gly Ala Leu Ile Val His Ala Asp Cys Phe Leu Met
      20           25           30
Arg Asn His Thr Ile Thr Glu Gln Pro Met Cys Phe Gln Arg Thr Thr
      35           40           45
Pro Leu Ile Leu Gln Glu Val Ala Ser Phe Leu Lys Arg Asn Lys His
      50           55           60
Gly Pro Phe Leu Leu Phe Val Ser Phe Leu His Val His Ile Pro Leu
      65           70           75           80
Ile Thr Met Glu Asn Phe Leu Gly Lys Ser Leu His Gly Leu Tyr Gly
      85           90           95
Asp Asn Val Lys Glu Met Asp Trp Met Val Gly Arg Ile Leu Asp Thr
      100          105          110
Leu Asp Val Glu Gly Leu Ser Asn Ser Thr Leu Ile Tyr Phe Thr Ser
      115          120          125
Asp His Gly Gly Ser Leu Glu Asn Gln Leu Gly Asn Thr Gln Tyr Gly
      130          135          140
Gly Trp Asn Gly Ile Tyr Lys Gly Gly Lys Gly Met Gly Gly Trp Glu
      145          150          155          160
Gly Gly Ile Arg Val Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro
      165          170          175
Ala Gly Arg Val Ile Gly Glu Pro Thr Ser Leu Met Asp Val Phe Pro
      180          185          190
Thr Val Val Arg Leu Ala Gly Ser Glu Val Pro Gln Asp Arg Val Ile
      195          200          205
Asp Gly Gln Asp Leu Leu Pro Leu Leu Leu Gly Thr Ala Gln His Ser
      210          215          220
Asp His Glu Phe Leu Met His Tyr Cys Glu Arg Phe Leu His Ala Ala
      225          230          235          240
Arg Trp His Gln Arg Asp Arg Gly Thr Met Trp Lys Val His Phe Val
      245          250          255
Thr Pro Val Phe Gln Pro Arg Gly Ser Arg Cys Leu Leu Trp Lys Glu
      260          265          270
Lys Val Cys Pro Cys Phe Gly Glu Lys Ser Ser Pro Pro Arg Ser His
      275          280          285
Pro Cys Phe Phe Asp Leu Ser Arg Ala Pro Ser Glu Thr His Ile Leu
      290          295          300
Thr Pro Ala Ser Glu Pro Val Phe Tyr Gln Val Met Glu Arg Ser Pro
      305          310          315          320
Ala Gly Gly Val Gly Thr Pro Ala Asp Thr Gln Pro Ser Ser Ser Ala
      325          330          335

```

Ala Gly Gln Ala Gly Gln Tyr Leu Glu Thr Gly Gly Ala Ala Leu Leu  
                   340                  345                  350  
 Trp Ala Val Pro Pro Leu Val Gly Pro \*  
                   355                  360 361

<210> 1231  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1231  
 Met Leu Arg Leu Gly Val Ala Phe His Met Glu Leu Leu Cys Arg Gly  
   1                  5                  10                  15  
 Arg Leu Leu Leu Leu Ile Pro Thr Ala Glu Thr Arg Cys Asp His Arg  
                   20                  25                  30  
 Arg Leu Gln Asn Leu Lys Leu Gly Leu Ser Asn Thr Leu Asp Lys His  
                   35                  40                  45  
 Gln Glu Pro His \*  
   50                  52

<210> 1232  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1232  
 Met Leu Asn Phe Ile Ser Pro Phe Gly Ser Thr Ile Leu Leu Leu Ile  
   1                  5                  10                  15  
 Pro Ser Ala Leu Pro Pro Ser Pro Pro Ser Arg Cys Ser Leu Leu Ser  
                   20                  25                  30  
 Pro Pro Pro Thr Thr Pro Leu Pro Leu Pro Leu Pro Ser Pro Phe Ser  
                   35                  40                  45  
 Ser Pro Leu Leu Ser Phe Phe \*  
   50                  55

<210> 1233  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1233  
 Met Gln Leu His Val Ser Leu Pro Trp Leu Leu Arg Phe Pro Gly Leu  
   1                  5                  10                  15  
 Asp Cys Thr Leu His Pro Asp Gln Pro Ser Ile Gln Leu Leu Gln Gly  
                   20                  25                  30  
 Thr Ile Asp Leu Leu Asp Ser Val Ile Leu Ser Cys Ser Leu Cys Leu  
                   35                  40                  45  
 Phe Gly Val Leu Gln Met His Ile  
   50                  55 56



<210> 1234  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1234  
 Met Leu Ser Gln Leu Pro Arg Cys Gln Ser Ser Val Pro Ala Leu Ala  
 1 5 10 15  
 His Pro Thr Arg Leu His Tyr Leu Leu Arg Leu Leu Thr Phe Leu Leu  
 20 25 30  
 Gly Pro Gly Ala Gly Gly Ala Glu Ala Gln Gly Met Leu Gly Arg Ala  
 35 40 45  
 Leu Leu Leu Ser Ser Leu Pro Asp Asn Cys Ser Phe Trp Asp Ala Phe  
 50 55 60  
 Arg Pro Glu Gly Arg Arg Ser Val Leu Arg Thr Ile Gly Glu Tyr Leu  
 65 70 75 80  
 Glu Gln Asp Glu Glu Gln Pro Thr Pro Ser Gly Phe Glu Pro Thr Val  
 85 90 95  
 Asn Pro Ser Ser Gly Ile Ser Lys Met Glu Leu Leu Ala Cys Phe Ser  
 100 105 110  
 Val Ser Ala Leu Pro Glu Gly Lys Leu Leu Glu Gln \*  
 115 120 124

<210> 1235  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1235  
 Met Phe Cys Phe Leu His Val Phe Leu Val Ser Leu Pro Phe Leu Thr  
 1 5 10 15  
 Ser Tyr Ser Cys Leu Gln Ile Ile Ser Tyr Ser Ser Phe Lys Ala Trp  
 20 25 30  
 Phe Lys Tyr Pro Phe Leu Cys Lys Ile Phe Pro Thr Leu Pro Asn Asn  
 35 40 45  
 Asp Ser Leu Gln Gln Thr Pro Leu Val His Gly Val Cys Leu Gln Gln  
 50 55 60  
 Gly Val His His Arg Leu Ile \*  
 65 70 71

<210> 1236  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1236  
 Met Ala Pro Gly Gly Ala Lys Gly Gln Gly Ala Ser Ala Leu Ala Leu  
 1 5 10 15  
 Leu Phe Ile Leu Ala Ser Pro Ala Thr Gly Gly Gly Pro Arg Leu Trp  
 20 25 30

Arg Ala Gly Gly Leu Gly Phe Thr His Cys Gln Ala Asn Ser Thr Thr  
           35                          40                          45                          48

<210> 1237  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens

<400> 1237  
 Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu  
   1                          5                          10                          15  
 Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg  
           20                          25                          30  
 Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly  
           35                          40                          45  
 Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro  
   50                          55                          60  
 Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr  
   65                          70                          75                          80  
 Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala  
           85                          90                          95  
 Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu  
           100                          105                          110  
 Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu  
           115                          120                          125  
 Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser  
   130                          135                          140  
 Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys  
  145                          150                          155                          160  
 Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro  
           165                          170                          175  
 Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn  
           180                          185                          190  
 Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys \*  
           195                          200                          205                          207

<210> 1238  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 1238  
 Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln Val  
   1                          5                          10                          15  
 Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu Thr Pro  
           20                          25                          30  
 Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro Lys Glu Glu  
           35                          40                          45  
 Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala Ser Glu Glu Glu  
           50                          55                          60  
 Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu Ala Lys Glu Thr Ser

```

65              70              75              80
Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile Ser Met Arg His Asp Gly
                        85              90              95
Asn Met Val Phe Ser Pro Phe Gly Met Ser Leu Ala Met Thr Gly Leu
                        100             105             110
Met Leu Gly Ala Thr Gly Pro Thr Glu Thr Gln Ile Lys Arg Gly Leu
                        115             120             125
His Leu Gln Ala Leu Lys Pro Thr Lys Pro Gly Leu Leu Pro Ser Leu
                        130             135             140
Phe Lys Gly Leu Arg Glu Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu
145              150              155              160
Thr Ala Gly Glu Phe Cys Leu His Pro Gln Gly Phe *
                        165             170             172

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<210> 1239
<211> 357
<212> PRT
<213> Homo sapiens

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<400> 1239
Met Ala Phe Leu Gly Leu Phe Ser Leu Leu Val Leu Gln Ser Met Ala
1              5              10              15
Thr Gly Ala Thr Phe Pro Glu Glu Ala Ile Ala Asp Leu Ser Val Asn
                20              25              30
Met Tyr Asn Arg Leu Arg Ala Thr Gly Glu Asp Glu Asn Ile Leu Phe
                35              40              45
Ser Pro Leu Ser Ile Ala Leu Ala Met Gly Met Met Glu Leu Gly Ala
                50              55              60
Gln Gly Ser Thr Gln Lys Glu Ile Arg His Ser Met Gly Tyr Asp Ser
65              70              75              80
Leu Lys Asn Gly Glu Phe Ser Phe Leu Lys Glu Phe Ser Asn Met
                85              90              95
Val Thr Ala Lys Glu Ser Gln Tyr Val Met Lys Ile Ala Asn Ser Leu
                100             105             110
Phe Val Gln Asn Gly Phe His Val Asn Glu Glu Phe Leu Gln Met Met
                115             120             125
Lys Lys Tyr Phe Asn Ala Ala Val Asn His Val Asp Phe Ser Gln Asn
130             135             140
Val Ala Val Ala Asn Tyr Ile Asn Lys Trp Val Glu Asn Asn Thr Asn
145             150             155             160
Asn Leu Val Lys Asp Leu Val Ser Pro Arg Asp Phe Asp Ala Ala Thr
                165             170             175
Tyr Leu Ala Leu Ile Asn Ala Val Tyr Phe Lys Gly Asn Trp Lys Ser
                180             185             190
Gln Phe Arg Pro Glu Asn Thr Arg Thr Phe Ser Phe Thr Lys Asp Asp
                195             200             205
Glu Ser Glu Val Gln Ile Pro Met Met Tyr Gln Gln Gly Glu Phe Tyr
210             215             220
Tyr Gly Glu Phe Ser Asp Gly Ser Asn Glu Ala Gly Gly Ile Tyr Gln
225             230             235             240
Val Leu Glu Ile Pro Tyr Glu Gly Asp Glu Ile Ser Met Met Leu Val
                245             250             255
Leu Ser Arg Gln Glu Val Pro Leu Ala Thr Leu Glu Pro Leu Val Lys
260             265             270
Ala Gln Leu Val Glu Glu Trp Ala Asn Ser Val Lys Lys Gln Lys Val
275             280             285

```

```

Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
 290                295                300
Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
305                310                315                320
Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
                325                330                335
Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Ala Gln Lys Leu Leu
                340                345                350
Leu Ser Gln Glu *
                355 356

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```

<210> 1240
<211> 707
<212> PRT
<213> Homo sapiens

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```

<400> 1240
Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1                5                10                15
Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
                20                25                30
Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
                35                40                45
Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50                55                60
Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65                70                75                80
Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
                85                90                95
Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
                100               105               110
Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
                115               120               125
Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
                130               135               140
Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
145                150                155                160
Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
                165                170                175
Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
                180                185                190
Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
                195                200                205
Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
210                215                220
Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
225                230                235                240
Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
                245                250                255
Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
                260                265                270
Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
275                280                285
Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
290                295                300
His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser

```

```

305          310          315          320
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp
          325          330          335
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp
          340          345          350
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met
          355          360          365
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg
          370          375          380
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val
385          390          395          400
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys
          405          410          415
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg
          420          425          430
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe
          435          440          445
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His
450          455          460
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg
465          470          475          480
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His
          485          490          495
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu
          500          505          510
Ser Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu
          515          520          525
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu
530          535          540
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg
545          550          555          560
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys
          565          570          575
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys
          580          585          590
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser
          595          600          605
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr
610          615          620
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu
625          630          635          640
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu
          645          650          655
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln
          660          665          670
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu
          675          680          685
Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
690          695          700
Ser Arg Leu
705          707

```

```

<210> 1241
<211> 98
<212> PRT
<213> Homo sapiens

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&lt;400&gt; 1241

```

Met Ala Phe Arg Thr Phe Ser Trp Ile Phe Ser Gly Leu Leu Ser Pro
 1          5          10          15
Thr Leu Ala Ser Pro Ser Val Ser Met Met Thr Met Glu Val Leu Leu
          20          25          30
Ser Gly Ile Leu Cys Ser Ser Arg Ala Leu Phe Ser Ile Leu Met Pro
          35          40          45
Leu Ser Ser Pro Ser Leu Met Leu Val Ile Pro Leu Ser Ser Met Leu
          50          55          60
Phe Thr Asn Val Leu Ala Ser Trp Arg Phe Ser Gly Val Ala Trp Thr
          65          70          75          80
Lys Cys Ser Phe His Val Asp Thr Ser Pro Leu Asn Arg Met Lys Phe
          85          90          95
Arg *
 97

```

&lt;210&gt; 1242

&lt;211&gt; 422

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1242

```

Met Val Leu Trp Glu Ser Pro Arg Gln Cys Ser Ser Trp Thr Leu Cys
 1          5          10          15
Glu Gly Phe Cys Trp Leu Leu Leu Leu Pro Val Met Leu Leu Ile Val
          20          25          30
Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr Ser Leu Ser Asp Cys
          35          40          45
Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
          50          55          60
Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
          65          70          75          80
Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
          85          90          95
Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
          100          105          110
Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
          115          120          125
Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
          130          135          140
Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
          145          150          155          160
Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asn Ala Glu
          165          170          175
Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
          180          185          190
Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
          195          200          205
Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Leu Ser Leu
          210          215          220
Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly
          225          230          235          240
His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
          245          250          255
Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe

```

```

                260                265                270
Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
                275                280                285
Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
                290                295                300
Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Pro Val Cys
305                310                315                320
Leu Asn Arg Ser Cys Asp Trp Asn Asn Ser Asp Cys Cys His Leu Cys
                325                330                335
Gly Gly Pro Leu His His Lys Glu Met Pro Pro Glu Ala Asn Arg Ile
                340                345                350
Pro Pro Asp Arg Ser Lys Ile Pro Gly His Tyr Ser Ser Arg Gln Tyr
                355                360                365
Asn Lys Ser Arg Pro Thr Arg Leu Ile Leu Lys Gly Ala Cys Phe His
370                375                380
Ser Gly Trp Thr Thr Glu Ser Leu Asp Tyr Thr Ile Gln Tyr Tyr Arg
385                390                395                400
Gln Lys Asn Lys Thr Arg Asp Leu Thr His Val Cys Leu Ala Phe Val
                405                410                415
Gly Asn Leu His Gln *
                420 421

```

```

<210> 1243
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1243
Met Leu Phe Val Phe Ile Cys Ser Tyr Phe His Leu Ser Leu Phe Leu
 1                5                10                15
Leu Phe Pro Phe Leu Pro Val Ser Leu Pro Ser Phe Leu Pro Phe Phe
                20                25                30
Leu Pro Ser Phe Leu Glu Phe Thr Glu Val Phe Pro Arg *
                35                40                45

```

```

<210> 1244
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1244
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
 1                5                10                15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
                20                25                30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
                35                40                45

```

```

<210> 1245
<211> 244
<212> PRT

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1245

```

Met Ala Gly Val Ile Ala Gly Leu Leu Met Phe Ile Ile Ile Leu Leu
 1           5           10           15
Gly Val Met Leu Thr Ile Lys Arg Arg Arg Asn Ala Tyr Ser Tyr Ser
          20           25           30
Tyr Tyr Leu Lys Leu Ala Lys Lys Gln Lys Glu Thr Gln Ser Gly Ala
          35           40           45
Gln Arg Glu Met Gly Pro Val Ala Ser Ala Asp Lys Pro Thr Thr Lys
          50           55           60
Leu Ser Ala Ser Arg Asn Asp Glu Gly Phe Ser Ser Ser Ser Gln Asp
          65           70           75           80
Val Asn Gly Phe Asn Gly Ser Arg Gly Glu Leu Ser Gln Pro Thr Leu
          85           90           95
Thr Ile Gln Thr His Pro Tyr Arg Thr Cys Asp Pro Val Glu Met Ser
          100          105          110
Tyr Pro Arg Asp Gln Phe Gln Pro Ala Ile Arg Val Ala Asp Leu Leu
          115          120          125
Gln His Ile Thr Gln Met Lys Arg Gly Gln Gly Tyr Gly Phe Lys Glu
          130          135          140
Glu Tyr Glu Ala Leu Pro Glu Gly Gln Thr Ala Ser Trp Asp Thr Ala
          145          150          155          160
Lys Glu Asp Glu Asn Arg Asn Lys Asn Arg Tyr Gly Asn Ile Ile Ser
          165          170          175
Tyr Asp His Ser Arg Val Arg Leu Leu Val Leu Asp Gly Asp Pro His
          180          185          190
Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr His Arg Pro Arg
          195          200          205
His Tyr Ile Ala Thr Gln Gly Pro Met Gln Glu Thr Val Lys Asp Phe
          210          215          220
Trp Arg Met Ile Trp Gln Glu Asn Ser Ala Ser Ile Val Met Val Thr
          225          230          235          240
Asn Pro Gly *
          243

```

&lt;210&gt; 1246

&lt;211&gt; 565

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1246

```

Met Ala Val Phe Arg Ser Gly Leu Leu Val Leu Thr Thr Pro Leu Ala
 1           5           10           15
Ser Leu Ala Pro Arg Leu Ala Ser Ile Leu Thr Ser Ala Ala Arg Leu
          20           25           30
Val Asn His Thr Leu Tyr Val His Leu Gln Pro Gly Met Ser Leu Glu
          35           40           45
Gly Pro Ala Gln Pro Gln Tyr Ser Pro Val Gln Ala Thr Phe Glu Val
          50           55           60
Leu Asp Phe Ile Thr His Leu Tyr Ala Gly Ala Asp Val His Arg His
          65           70           75           80
Leu Asp Val Arg Ile Leu Leu Thr Asn Ile Arg Thr Lys Ser Thr Phe
          85           90           95
Leu Pro Pro Leu Pro Thr Ser Val Gln Asn Leu Ala His Pro Pro Glu

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711

<210> 1247  
 <211> 737  
 <212> PRT  
 <213> Homo sapiens

<400> 1247  
 Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val  
 1 5 10 15  
 Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala  
 20 25 30  
 Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe  
 35 40 45  
 Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu  
 50 55 60  
 Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro  
 65 70 75 80  
 Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile  
 85 90 95  
 Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly  
 100 105 110  
 His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro  
 115 120 125  
 Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu  
 130 135 140  
 Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp  
 145 150 155 160  
 Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg  
 165 170 175  
 Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met  
 180 185 190  
 Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val  
 195 200 205  
 Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr  
 210 215 220  
 Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val  
 225 230 235 240  
 Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser  
 245 250 255  
 Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile  
 260 265 270  
 Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr  
 275 280 285  
 Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly  
 290 295 300  
 Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn  
 305 310 315 320  
 Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile  
 325 330 335  
 Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile  
 340 345 350  
 Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr  
 355 360 365  
 Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly  
 370 375 380  
 Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser

```

385          390          395          400
Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
          405          410          415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
          420          425          430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
          435          440          445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
          450          455          460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
          465          470          475
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
          485          490          495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
          500          505          510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
          515          520          525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
          530          535          540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
          545          550          555
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
          565          570          575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
          580          585          590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
          595          600          605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
          610          615          620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
          625          630          635
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
          645          650          655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
          660          665          670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
          675          680          685
Thr Arg Pro Gly Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
          690          695          700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
          705          710          715
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
          725          730          735 736

```

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<210> 1248
<211> 175
<212> PRT
<213> Homo sapiens

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```

<400> 1248
Met Gly Trp Val Trp Thr Leu Cys Thr Ala Ser Ala Cys Leu Thr Leu
  1          5          10          15
Leu Phe Trp Ser Gln Thr Pro Gly Lys Ala Phe Gln Ile Pro Cys Pro
          20          25          30

```

```

Pro Pro His Leu Ser His Trp Cys Leu Ser Pro Met Gln Met Asp Asp
      35              40              45
Gly Cys Ala Arg Leu Cys Val Leu Trp Thr Ala Trp Met Arg Trp Arg
      50              55              60
Val Leu Met Cys Ser Cys Arg Val Trp Ala Thr Asp Leu Gly Ile Phe
      65              70              75              80
Leu Gly Val Ala Leu Gly Asn Glu Pro Leu Glu Met Trp Pro Leu Thr
      85              90              95
Gln Asn Glu Glu Cys Thr Val Thr Gly Phe Leu Arg Asp Lys Leu Gln
      100             105             110
Tyr Arg Ser Arg Leu Gln Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr
      115             120             125
Lys Ile Arg Val Pro Tyr Glu Gly Val Phe Arg Ile Ala Asn Val Thr
      130             135             140
Arg Leu Arg Ala Gln Gly Ser Glu Arg Glu Leu Arg Tyr Leu Gly Val
      145             150             155             160
Leu Val Ser Leu Ser Ala Thr Glu Ser Val His Asp Glu Leu Leu
      165             170             175

```

<210> 1249  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1249
Met Phe His Arg Cys Arg Leu Lys Ala Gly Leu Met Leu Trp Arg Ser
  1              5              10              15
Leu Glu Ser Gly Leu Cys Ala Gly Ala His Arg Leu Trp Leu Glu Gly
      20              25              30
Pro Met Ala Phe Pro Glu Leu Gly Glu Lys Asp Pro Leu Leu Ala Ser
      35              40              45
Pro Leu Ala Leu Ile Pro Gln Ser Leu Ile Gly Leu Gly Gly Leu Arg
      50              55              60
Gly Ala Trp *
      65              67

```

<210> 1250  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1250
Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
  1              5              10              15
Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
      20              25              30
Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
      35              40              45
Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
      50              55              60
Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
      65              70              75              80
Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met

```

```

      85      90      95
Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
      100      105      110
Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
      115      120      125
Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
      130      135      140
Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
      145      150      155      160
Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
      165      170      175
Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
      180      185      190
Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
      195      200      205      208
*
```

```

<210> 1251
<211> 58
<212> PRT
<213> Homo sapiens
```

```

<400> 1251
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
  1      5      10      15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
      20      25      30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
      35      40      45
Ser Ser Arg Pro Ala Trp Pro Ile Arg *
      50      55      57
```

```

<210> 1252
<211> 84
<212> PRT
<213> Homo sapiens
```

```

<400> 1252
Met Tyr Lys Asn Phe Cys Leu Phe Phe Ile Phe Ala Leu Tyr Gln Gly
  1      5      10      15
Leu Ala Asn Tyr Gly Leu Trp Ala Asn Ser Asn Pro Leu His Val Ser
      20      25      30
Val Tyr Lys Ile Leu Leu Gly Cys Val Pro Trp Leu Leu Ser Val Val
      35      40      45
Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr His His Tyr Ala Trp
      50      55      60
Ile Ile Phe Cys Ile Phe Ser Thr Asp Gly Val Ser Pro Arg Trp Pro
      65      70      75      80
Arg Trp Ser *
      83
```

<210> 1253  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1253  
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly  
 1 5 10 15  
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln  
 20 25 30  
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe  
 35 40 45  
 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Glu  
 50 55 60  
 Gly Ala Gly Val Gly Leu Arg Phe \*  
 65 70 72

<210> 1254  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

<400> 1254  
 Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys  
 1 5 10 15  
 Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser  
 20 25 30  
 Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser  
 35 40 45  
 Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro  
 50 55 60  
 Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro  
 65 70 75 80  
 Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met  
 85 90 95  
 Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr  
 100 105 110  
 Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys  
 115 120 125  
 Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe  
 130 135 140  
 Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr  
 145 150 155 160  
 Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys  
 165 170 175  
 Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile  
 180 185 190  
 Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser  
 195 200 205 208  
 \*

<210> 1255  
 <211> 730  
 <212> PRT  
 <213> Homo sapiens

<400> 1255  
 Met Gly Pro Trp Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Leu  
 1 5 10 15  
 Ala Ala Ala Gly Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe  
 20 25 30  
 Gln Cys Gln Asp Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly  
 35 40 45  
 Ser Ala Glu Cys Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu  
 50 55 60  
 Ser Val Thr Cys Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn  
 65 70 75 80  
 Arg Cys Ile Pro Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp  
 85 90 95  
 Asn Gly Ser Asp Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp  
 100 105 110  
 Glu Phe Arg Cys His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys  
 115 120 125  
 Asp Ser Asp Arg Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro  
 130 135 140  
 Val Leu Thr Cys Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys  
 145 150 155 160  
 Ile Pro Gln Leu Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly  
 165 170 175  
 Ser Asp Glu Trp Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly  
 180 185 190  
 Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu  
 195 200 205  
 Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp  
 210 215 220  
 Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu  
 225 230 235 240  
 Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp  
 245 250 255  
 Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn  
 260 265 270  
 Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu  
 275 280 285  
 Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp  
 290 295 300  
 Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp  
 305 310 315 320  
 Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr  
 325 330 335  
 Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys  
 340 345 350  
 Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys  
 355 360 365  
 Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln  
 370 375 380  
 Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr  
 385 390 395 400  
 Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg  
 405 410 415

```

Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu
      420      425      430
Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln
      435      440      445
Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser
      450      455      460
Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala
      465      470      475      480
Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly
      485      490      495
Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe
      500      505      510
Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His
      515      520      525
Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys
      530      535      540
Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile
      545      550      555      560
Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr
      565      570      575
Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly
      580      585      590
Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro
      595      600      605
Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile
      610      615      620
Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn
      625      630      635      640
Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His
      645      650      655
Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu
      660      665      670
Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn
      675      680      685
Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu
      690      695      700
Ala Arg Gly His Glu Glu Leu Pro His Arg Gly Leu Arg Leu Gln Trp
      705      710      715      720
Pro Pro Arg Arg His Pro Pro Ser Gly *
      725      729

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<210> 1256
<211> 264
<212> PRT
<213> Homo sapiens

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```

<400> 1256
Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala Phe
  1      5      10      15
Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp Asp Ala
      20      25      30
Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly Glu
      35      40      45
Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro Thr
      50      55      60
Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Ser Val Gly

```



```

65          70          75          80
Arg His Gly Lys Ile Gly Pro Ile Gly Ser Lys Gly Glu Lys Gly Asp
      85          90          95
Ser Gly Asp Ile Gly Pro Pro Gly Pro Asn Gly Glu Pro Gly Leu Pro
      100          105          110
Cys Glu Cys Ser Gln Leu Arg Lys Ala Ile Gly Glu Met Asp Asn Gln
      115          120          125
Val Ser Gln Leu Thr Ser Glu Leu Lys Phe Ile Lys Asn Ala Val Ala
      130          135          140
Gly Val Arg Glu Thr Glu Ser Lys Ile Tyr Leu Leu Val Lys Glu Glu
      145          150          155
Lys Arg Tyr Ala Asp Ala Gln Leu Ser Cys Gln Gly Arg Gly Gly Thr
      165          170          175
Leu Ser Met Pro Lys Asp Glu Ala Ala Asn Gly Leu Met Ala Ala Tyr
      180          185          190
Leu Ala Gln Ala Gly Leu Ala Arg Val Phe Ile Gly Ile Asn Asp Leu
      195          200          205
Glu Lys Glu Gly Ala Phe Val Tyr Ser Asp His Ser Pro Met Arg Thr
      210          215          220
Phe Asn Lys Trp Arg Ser Gly Glu Pro Asn Asn Ala Tyr Asp Glu Glu
      225          230          235
Asp Cys Val Glu Met Val Ala Ser Gly Gly Trp Asn Asp Val Ala Cys
      245          250          255
His Thr Thr Met Tyr Phe Met *
      260          263

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<210> 1257
<211> 407
<212> PRT
<213> Homo sapiens

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```

<400> 1257
Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu Cys Ala Ala
  1          5          10          15
Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln Ser Lys Ser
      20          25          30
Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala His Gly Leu
      35          40          45
Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg Thr Arg Ser
      50          55          60
Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly Ser Ala Cys
      65          70          75          80
Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro Glu Ser Arg
      85          90          95
Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu Lys Ala Gln
      100          105          110
Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln Gln Gln Arg
      115          120          125
His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln Ser Gln Phe
      130          135          140
Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala Lys Pro Ala
      145          150          155          160
Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp Pro Ala His
      165          170          175
Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln Glu Leu Phe
      180          185          190

```

Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly  
 195 200 205  
 Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp  
 210 215 220  
 Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro  
 225 230 235 240  
 Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp  
 245 250 255  
 Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg  
 260 265 270  
 Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln  
 275 280 285  
 Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu  
 290 295 300  
 Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser  
 305 310 315 320  
 Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg  
 325 330 335  
 Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly  
 340 345 350  
 Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro  
 355 360 365  
 Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg  
 370 375 380  
 Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met  
 385 390 395 400  
 Ala Ala Glu Ala Ala Ser \*  
 405 406

<210> 1258  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 1258  
 Met Met Thr Pro Lys Leu Met Ile Trp Leu Leu Leu Gln Ala Lys Ser  
 1 5 10 15  
 Ser Ile Ser Met Leu Glu Lys Ser Ser Lys Cys Leu Gly Arg Cys Phe  
 20 25 30  
 Ser Ser Phe Ala Lys Asn Leu Val Met Ile Gln Ser Cys Val Ser Trp  
 35 40 45  
 Ala Leu Met Ser Glu Asn Phe Tyr Arg Thr Leu Met Leu Cys Thr Thr  
 50 55 60  
 Thr Leu Leu Pro Ser Thr Gln Glu Cys Val His Leu Pro Leu Gly Ala  
 65 70 75 80  
 Leu Met Gln Lys Arg Ala Lys Asp Ser Phe Cys Thr Thr Thr Gln Arg  
 85 90 95  
 Glu Lys Asp Phe Arg Ile Leu Ser Leu Glu Ser Ser Lys Gln Trp His  
 100 105 110  
 Asn Lys Ser Met Ala Leu Lys \*  
 115 119

<210> 1259  
 <211> 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1259

```

Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1           5           10           15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
           20           25           30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Gly Glu Cys Tyr Phe Phe Asn
           35           40           45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
           50           55           60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Tyr Arg Ala Val Thr
           65           70           75           80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Leu Glu Gln Pro Glu Gly Arg
           85           90           95
Pro Trp Asn Ser Gln Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val
           100          105          110
Asp Thr Tyr Cys Arg His Asn Tyr Gly Val Val Glu Ser Phe Thr Val
           115          120          125
Gln Arg Arg Val His Pro Lys Val Thr Val Tyr Pro Ser Lys Thr Gln
           130          135          140
Pro Leu Gln Ala Pro Gln Pro Ala Val Leu Phe Cys Glu Trp Phe *
145           150           155           159

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&lt;210&gt; 1260

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1260

```

Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser Thr Leu Cys Pro Ser
 1           5           10           15
Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu Pro Leu Arg Ala Thr
           20           25           30
Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys Gln Glu Phe Glu Lys
           35           40           45
Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala Val Ala Ala Leu Leu
           50           55           60
Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met Ser Glu Phe Gln Ser
           65           70           75           80
Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile Phe Glu Ser Ile Gln
           85           90           95
Lys Asp Ser Ser Ser Thr Asn Leu Glu Ser Met Asp Thr Ser *
           100          105          110

```

&lt;210&gt; 1261

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1261

```

Met Ile Pro Ala Arg Phe Ala Gly Val Leu Leu Ala Leu Ala Leu Ile
 1           5           10           15
Leu Pro Gly Thr Leu Cys Ala Glu Gly Thr Arg Gly Arg Ser Ser Thr
           20           25           30
Ala Arg Cys Ser Leu Phe Gly Ser Asp Phe Val Asn Thr Phe Asp Gly
           35           40           45
Ser Met Tyr Ser Phe Ala Gly Tyr Cys Ser Tyr Leu Leu Ala Gly Gly
           50           55           60
Cys Gln Lys Arg Ser Phe Ser Ile Ile Gly Asp Phe Gln Asn Gly Lys
           65           70           75           80
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
           85           90           95
Phe Val Asn Gly Thr Val Thr Gln Gly Asp Gln Arg Val Ser Met Pro
           100          105          110
Tyr Ala Ser Lys Gly Leu Tyr Leu Glu Thr *
           115          120          122

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<210> 1262
<211> 737
<212> PRT
<213> Homo sapiens

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```

<400> 1262
Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1           5           10           15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
           20           25           30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
           35           40           45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
           50           55           60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
           65           70           75           80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
           85           90           95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
           100          105          110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
           115          120          125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
           130          135          140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Arg Asp
           145          150          155          160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
           165          170          175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
           180          185          190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
           195          200          205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
           210          215          220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
           225          230          235          240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
           245          250          255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile

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<210> 1263  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1263  
 Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu  
 1 5 10 15  
 Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro  
 20 25 30  
 Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg \*  
 35 40 45 47

<210> 1264  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1264  
 Met Met Tyr Ile Leu Phe Leu Gln Ala Phe Ile Leu Asp Tyr Tyr Gln  
 1 5 10 15  
 Tyr Phe Leu Gly Leu Asn Cys Val Tyr Ser Tyr Gln Ser Lys Lys Asp  
 20 25 30  
 Phe Ser Gln Ile Trp Ser Gln Gly Trp Phe Ala Leu Leu Trp Ile Leu  
 35 40 45  
 Cys Leu Ser Arg Ile Leu Glu Ser Phe Phe Phe Leu \*  
 50 55 60

<210> 1265  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1265  
 Met Val Gly Phe Leu Cys Cys Phe Tyr Leu Phe Gln Leu Leu Gly Pro  
 1 5 10 15  
 Gly Leu Leu Cys Leu Pro Lys Ala Val Leu Ser Phe Leu Gly Leu Leu  
 20 25 30  
 Glu Ala Ala His His Leu Leu Val Lys Gly Phe Leu Leu Pro Val Leu  
 35 40 45  
 Asp Leu Pro Gln Val Ile Val His Gln \*  
 50 55 57

<210> 1266  
 <211> 148

<212> PRT  
 <213> Homo sapiens

<400> 1266  
 Met Ala Leu Gln Leu Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala  
 1 5 10 15  
 Gly Ala Ser Leu Arg Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys  
 20 25 30  
 Glu Leu Asn His Leu Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu  
 35 40 45  
 Gly Ala Val Asn Ala Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu  
 50 55 60  
 Gln Gln Val Ala Thr Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro  
 65 70 75 80  
 Pro Ile Glu Ala Ser Gln Cys His Glu Ala Glu Met Thr Asp Asn Val  
 85 90 95  
 Asn Gln Leu Leu Leu Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys  
 100 105 110  
 Gly Gln Leu Leu Lys Gly Ile Leu Arg Ser Ala Arg Pro Glu Gln His  
 115 120 125  
 Leu Pro Pro Pro Val Leu Arg Gly Arg Gln Arg Gly Glu Val Phe Arg  
 130 135 140  
 Gly Gln Gln \*  
 145 147

<210> 1267  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 1267  
 Met Arg Trp Leu Trp Pro Leu Ala Val Ser Leu Ala Val Ile Leu Ala  
 1 5 10 15  
 Val Gly Leu Ser Arg Val Ser Gly Gly Ala Pro Leu His Leu Gly Arg  
 20 25 30  
 His Arg Ala Glu Thr Gln Glu Gln Gln Ser Arg Ser Lys Arg Gly Thr  
 35 40 45  
 Glu Asp Glu Glu Ala Lys Gly Val Gln Gln Tyr Val Pro Glu Glu Trp  
 50 55 60  
 Ala Glu Tyr Pro Arg Pro Ile His Pro Ala Gly Leu Gln Pro Thr Lys  
 65 70 75 80  
 Pro Leu Val Ala Thr Ser Pro Asn Pro Asp Lys Asp Gly Gly Thr Pro  
 85 90 95  
 Asp Ser Gly Gln Glu Leu Arg Gly Asn Leu Thr Gly Ala Pro Gly Gln  
 100 105 110  
 Arg Leu Gln Ile Gln Asn Pro Leu Tyr Pro Val Thr Glu Ser Ser Tyr  
 115 120 125  
 Ser Ala Tyr Ala Ile Met Leu Leu Ala Leu Val Glu Phe Ala Ala Gly  
 130 135 140  
 Ile Val Gly Asn Leu Ser Val Met Cys Ile Ala Trp His Ser Tyr Tyr  
 145 150 155 160  
 Leu Lys Ser Ala Trp Asn Ser Ile Leu Ala Ser Leu Ala Leu Trp Asp  
 165 170 175  
 Phe Leu Val Leu Phe Phe Cys Leu Pro Ile Val Ile Leu Asn Glu Ile  
 180 185 190

Thr Lys Gln Arg Leu Leu Gly Asp Ala Pro Cys Pro Cys Arg Ala Leu  
           195                          200                          205  
 His Gly Gly Leu Leu Ser Gly Ser His Asp Phe Gln Pro Leu Cys Pro  
       210                          215                          220  
 Gly His \*  
 225 226

<210> 1268  
 <211> 983  
 <212> PRT  
 <213> Homo sapiens

<400> 1268  
 Met Leu Gly Asn Val Leu Leu Leu Cys Phe Phe Val Phe Phe Ile Phe  
   1                          5                          10                          15  
 Gly Ile Val Gly Val Gln Leu Trp Ala Gly Leu Leu Arg Asn Arg Cys  
           20                          25                          30  
 Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val Asp Leu Glu Arg  
       35                          40                          45  
 Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe Ile Cys Ser Gln  
       50                          55                          60  
 Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val Pro Thr Leu Arg  
       65                          70                          75                          80  
 Gly Asp Gly Gly Gly Gly Pro Pro Cys Gly Leu Asp Tyr Glu Ala Tyr  
           85                          90                          95  
 Asn Ser Ser Ser Asn Thr Thr Cys Val Asn Trp Asn Gln Tyr Tyr Thr  
           100                          105                          110  
 Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly Ala Ile Asn Phe  
       115                          120                          125  
 Asp Asn Ile Gly Tyr Ala Trp Ile Ala Ile Phe Gln Val Ile Thr Leu  
       130                          135                          140  
 Glu Gly Trp Val Asp Ile Met Tyr Phe Val Met Asp Ala His Ser Phe  
       145                          150                          155                          160  
 Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val Gly Ser Phe Phe  
           165                          170                          175  
 Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln Phe Ser Glu Thr  
           180                          185                          190  
 Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg Val Arg Phe Leu  
       195                          200                          205  
 Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro Gly Ser Cys Tyr  
       210                          215                          220  
 Glu Glu Leu Leu Lys Tyr Leu Val Tyr Ile Leu Arg Lys Ala Ala Arg  
       225                          230                          235                          240  
 Arg Leu Ala Gln Val Ser Arg Ala Ala Gly Val Arg Val Gly Leu Leu  
           245                          250                          255  
 Ser Ser Pro Ala Pro Leu Gly Gly Gln Glu Thr Gln Pro Ser Ser Ser  
           260                          265                          270  
 Cys Ser Arg Ser His Arg Arg Leu Ser Val His His Leu Val His His  
       275                          280                          285  
 His His His His His His Tyr His Leu Gly Asn Gly Thr Leu Arg  
       290                          295                          300  
 Ala Pro Arg Ala Ser Pro Glu Ile Gln Asp Arg Asp Ala Asn Gly Ser  
       305                          310                          315                          320  
 Arg Arg Leu Met Leu Pro Pro Pro Ser Thr Pro Ala Leu Ser Gly Ala  
           325                          330                          335  
 Pro Pro Gly Gly Ala Glu Ser Val His Ser Phe Tyr His Ala Asp Cys



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Ser Leu Pro Lys Ser Thr Ser Thr Gly Leu Gly Glu Ala Leu Gly Pro
      820      825      830
Ala Ser Arg Arg Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala
      835      840      845
His Glu Met Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro
      850      855      860
Trp Ser Ala Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser
865      870      875      880
Leu Gly Arg Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg
      885      890      895
Arg Ser Leu Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu
      900      905      910
Ser Ser Glu Glu Glu Arg Ala Ser Pro Ala Gly Ser Asp His Arg His
      915      920      925
Arg Gly Ser Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp
      930      935      940
Thr Leu Gln Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Gly Ser
945      950      955      960
Ala Ser Glu His Gln Gly Leu Gln Trp Gln Val Gly Phe Arg Ala Pro
      965      970      975
Gly Pro Gly Pro Ala Ala *
      980      982

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<210> 1269
<211> 708
<212> PRT
<213> Homo sapiens

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<400> 1269
Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1      5      10      15
Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
      20      25      30
Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
      35      40      45
Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
      50      55      60
Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
      65      70      75      80
Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
      85      90      95
Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
      100      105      110
Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
      115      120      125
Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
      130      135      140
Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
145      150      155      160
Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
      165      170      175
Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
      180      185      190
Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
      195      200      205
Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe

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210	215	220
Ala Leu Val Ile Leu Leu	Asp Arg Thr Lys Val	Pro Ala Lys Asp Tyr
225	230	235
Phe Val Ala Thr Thr	Ile Val Val Val Phe	Thr Val Ile Val Gln
	245	250
Gly Leu Thr Ile Lys	Pro Leu Val Lys Trp	Leu Lys Val Lys Arg Ser
	260	265
Glu His His Lys Pro Thr	Leu Asn Gln Glu Leu	His Glu His Thr Phe
	275	280
Asp His Ile Leu Ala Ala	Val Glu Asp Val Val	Gly His His Gly Tyr
290	295	300
His Tyr Trp Arg Asp	Arg Trp Glu Gln Phe	Asp Lys Lys Tyr Leu Ser
305	310	315
Gln Leu Leu Met Arg	Arg Ser Ala Tyr Arg	Ile Arg Asp Gln Ile Trp
	325	330
Asp Val Tyr Tyr Arg	Leu Asn Ile Arg	Asp Ala Ile Ser Phe Val Asp
	340	345
Gln Gly Gly His Val	Leu Ser Ser Thr	Gly Leu Thr Leu Pro Ser Met
	355	360
Pro Ser Arg Asn Ser	Val Ala Glu Thr	Ser Val Thr Asn Leu Leu Arg
370	375	380
Glu Ser Gly Ser Gly	Ala Cys Leu Asp	Leu Gln Val Ile Asp Thr Val
385	390	395
Arg Ser Gly Arg Asp	Arg Glu Asp Ala	Val Met His His Leu Leu Cys
	405	410
Gly Gly Leu Tyr Lys	Pro Arg Arg Arg	Tyr Lys Ala Ser Cys Ser Arg
	420	425
His Phe Ile Ser Glu	Asp Ala Gln Glu	Arg Gln Asp Lys Glu Val Phe
	435	440
Gln Gln Asn Met Lys	Arg Arg Leu Glu	Ser Phe Lys Ser Thr Lys His
450	455	460
Asn Ile Cys Phe Thr	Lys Ser Lys Pro	Arg Pro Arg Lys Thr Gly Arg
465	470	475
Arg Lys Lys Asp Gly	Val Ala Asn Ala	Glu Ala Thr Asn Gly Lys His
	485	490
Arg Gly Leu Gly Phe	Gln Asp Thr Ala	Ala Val Ile Leu Thr Val Glu
	500	505
Ser Glu Glu Glu Glu	Glu Ser Asp Ser	Ser Glu Thr Glu Lys Glu
	515	520
Asp Asp Glu Gly Ile	Ile Phe Val Ala	Arg Ala Thr Ser Glu Val Leu
530	535	540
Gln Glu Gly Lys Val	Ser Gly Ser Leu	Glu Val Cys Pro Ser Pro Arg
545	550	555
Ile Ile Pro Pro Ser	Pro Thr Cys Ala	Glu Lys Glu Leu Pro Trp Lys
	565	570
Ser Gly Gln Gly Asp	Leu Ala Val Tyr	Val Ser Ser Glu Thr Thr Lys
	580	585
Ile Val Pro Val Asp	Met Gln Thr Gly	Trp Asn Gln Ser Ile Ser Ser
	595	600
Leu Glu Ser Leu Ala	Ser Pro Pro Cys	Asn Gln Ala Pro Ile Leu Thr
610	615	620
Cys Leu Pro Pro His	Pro Arg Gly Thr	Glu Glu Pro Gln Val Pro Leu
625	630	635
His Leu Pro Ser Asp	Pro Arg Ser Ser	Phe Ala Phe Pro Pro Ser Leu
	645	650
Ala Lys Ala Gly Arg	Ser Arg Ser Glu	Ser Ser Ala Asp Leu Pro Gln
	660	665
Gln Gln Glu Leu Gln	Pro Leu Met Gly	His Lys Asp His Thr His Leu
675	680	685

Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly  
 690 695 700  
 Ser Arg Leu \*  
 705 707

<210> 1270  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1270  
 Met Leu Gln Ala Ala Leu Trp Cys Gly Ile Gly Leu Tyr Leu Val Thr  
 1 5 10 15  
 Leu Arg Leu Gly Val Glu Val Thr Pro Glu Ser Gln His Phe Gly Arg  
 20 25 30  
 Pro Arg Arg Ala Asp His Leu Arg Pro Gly Gly Arg Gly Gln Ser Gly  
 35 40 45  
 Gln His Gly Glu Thr Pro Ser Leu Leu Glu Ile Gln Lys Ile Ser Trp  
 50 55 60  
 Met Trp Trp His Ile Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala  
 65 70 75 80  
 Gly Glu Ser Leu Glu Arg Gly Arg Trp Arg Leu Gln \*  
 85 90 92

<210> 1271  
 <211> 648  
 <212> PRT  
 <213> Homo sapiens

<400> 1271  
 Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu  
 1 5 10 15  
 Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro  
 20 25 30  
 Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala  
 35 40 45  
 His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro  
 50 55 60  
 Gly Met Arg Asp His Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn  
 65 70 75 80  
 Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr  
 85 90 95  
 Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu  
 100 105 110  
 Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp  
 115 120 125  
 His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp  
 130 135 140  
 Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr  
 145 150 155 160  
 Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg  
 165 170 175  
 Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu

180						185						190					
Glu	Glu	Lys	Ser	Arg	Val	Lys	Cys	Asp	Gln	Tyr	Trp	Pro	Ala	Arg	Gly		
195						200						205					
Thr	Glu	Thr	Cys	Gly	Leu	Ile	Gln	Val	Thr	Leu	Leu	Asp	Thr	Val	Glu		
210						215						220					
Leu	Ala	Thr	Tyr	Thr	Val	Arg	Thr	Phe	Ala	Leu	His	Lys	Ser	Gly	Ser		
225						230						235					
Ser	Glu	Lys	Arg	Glu	Leu	Arg	Gln	Phe	Gln	Phe	Met	Ala	Trp	Pro	Asp		
245						250						255					
His	Gly	Val	Pro	Glu	Tyr	Pro	Thr	Pro	Ile	Leu	Ala	Phe	Leu	Arg	Arg		
260						265						270					
Val	Lys	Ala	Cys	Asn	Pro	Leu	Asp	Ala	Gly	Pro	Met	Val	Val	His	Cys		
275						280						285					
Ser	Ala	Gly	Val	Gly	Arg	Thr	Gly	Cys	Phe	Ile	Val	Ile	Asp	Ala	Met		
290						295						300					
Leu	Glu	Arg	Met	Lys	His	Glu	Lys	Thr	Val	Asp	Ile	Tyr	Gly	His	Val		
305						310						315					
Thr	Cys	Met	Arg	Ser	Gln	Arg	Asn	Tyr	Met	Val	Gln	Thr	Glu	Asp	Gln		
325						330						335					
Tyr	Val	Phe	Ile	His	Glu	Ala	Leu	Leu	Glu	Ala	Ala	Thr	Cys	Gly	His		
340						345						350					
Thr	Glu	Val	Pro	Ala	Arg	Asn	Leu	Tyr	Ala	His	Ile	Gln	Lys	Leu	Gly		
355						360						365					
Gln	Val	Pro	Pro	Gly	Glu	Ser	Val	Thr	Ala	Met	Glu	Leu	Glu	Phe	Lys		
370						375						380					
Leu	Leu	Ala	Ser	Ser	Lys	Ala	His	Thr	Ser	Arg	Phe	Ile	Ser	Ala	Asn		
385						390						395					
Leu	Pro	Cys	Asn	Lys	Phe	Lys	Asn	Arg	Leu	Val	Asn	Ile	Met	Pro	Tyr		
405						410						415					
Glu	Leu	Thr	Arg	Val	Cys	Leu	Gln	Pro	Ile	Arg	Gly	Val	Glu	Gly	Ser		
420						425						430					
Asp	Tyr	Ile	Asn	Ala	Ser	Phe	Leu	Asp	Gly	Tyr	Arg	Gln	Gln	Lys	Ala		
435						440						445					
Tyr	Ile	Ala	Thr	Gln	Gly	Pro	Leu	Ala	Glu	Ser	Thr	Glu	Asp	Phe	Trp		
450						455						460					
Arg	Met	Leu	Trp	Glu	His	Asn	Ser	Thr	Ile	Ile	Val	Met	Leu	Thr	Lys		
465						470						475					
Leu	Arg	Glu	Met	Gly	Arg	Glu	Lys	Cys	His	Gln	Tyr	Trp	Pro	Ala	Glu		
485						490						495					
Arg	Ser	Ala	Arg	Tyr	Gln	Tyr	Phe	Val	Val	Asp	Pro	Met	Ala	Glu	Tyr		
500						505						510					
Asn	Met	Pro	Gln	Tyr	Ile	Leu	Arg	Glu	Phe	Lys	Val	Thr	Asp	Ala	Arg		
515						520						525					
Asp	Gly	Gln	Ser	Arg	Thr	Ile	Arg	Gln	Phe	Gln	Phe	Thr	Asp	Trp	Pro		
530						535						540					
Glu	Gln	Gly	Val	Pro	Lys	Thr	Gly	Glu	Gly	Phe	Ile	Asp	Phe	Ile	Gly		
545						550						555					
Gln	Val	His	Lys	Thr	Lys	Glu	Gln	Phe	Gly	Gln	Asp	Gly	Pro	Ile	Thr		
565						570						575					
Val	His	Cys	Ser	Ala	Gly	Val	Gly	Arg	Thr	Gly	Val	Phe	Ile	Thr	Leu		
580						585						590					
Ser	Ile	Val	Leu	Glu	Arg	Met	Arg	Tyr	Glu	Gly	Val	Val	Asp	Met	Phe		
595						600						605					
Gln	Thr	Val	Lys	Thr	Leu	Arg	Thr	Gln	Arg	Pro	Ala	Met	Val	Gln	Thr		
610						615						620					
Glu	Asp	Gln	Tyr	Gln	Leu	Cys	Tyr	Arg	Ala	Ala	Leu	Glu	Tyr	Leu	Gly		
625						630						635					
Ser	Phe	Asp	His	Tyr	Ala	Thr	*										
645						647											

<210> 1272  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1272  
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val  
 1 5 10 15  
 Ser Ser Lys Thr Leu Cys Ser Met Glu Ala Ile Asn Glu Arg Ile  
 20 25 30  
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly  
 35 40 45  
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro  
 50 55 60  
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser  
 65 70 75 80  
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met  
 85 90 95  
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro \*

<210> 1273  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1273  
 Met Phe Phe Val Pro Ile Leu Leu Cys Leu Leu Leu Leu Ile Tyr Asn  
 1 5 10 15  
 Ile Ile Cys Phe Asn Met Glu His Pro Thr Gly Ala Gly Leu Arg Cys  
 20 25 30  
 Ser Leu Leu Ala Ala Pro Lys Glu Arg Gln His Arg His His Phe Val  
 35 40 45  
 Phe His Ile Asp Thr Asn His \*

<210> 1274  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 1274  
 Met Asp Leu Ser Leu Leu Trp Val Leu Leu Pro Leu Val Thr Met Ala  
 1 5 10 15  
 Trp Gly Gln Tyr Gly Asp Tyr Gly Tyr Pro Tyr Gln Gln Tyr His Asp  
 20 25 30  
 Tyr Ser Asp Asp Gly Trp Val Asn Leu Asn Arg Gln Gly Phe Ser Tyr  
 35 40 45  
 Gln Cys Pro Gln Gly Gln Val Ile Val Ala Val Arg Ser Ile Phe Ser

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      50              55              60
Lys Lys Glu Gly Ser Asp Arg Gln Trp Asn Tyr Ala Cys Met Pro Thr
 65              70              75              80
Pro Gln Ser Leu Gly Glu Pro Thr Glu Cys Trp Trp Glu Glu Ile Asn
      85              90
Arg Ala Gly Met Glu Trp Tyr Gln Thr Cys Ser Asn Asn Gly Leu Val
      100              105              110
Ala Gly Phe Gln Ser Arg Tyr Phe Glu Ser Val Leu Asp Arg Glu Trp
      115              120              125
Gln Phe Tyr Cys Cys Arg Tyr Ser Lys Arg Cys Pro Tyr Ser Cys Trp
      130              135              140
Leu Thr Thr Glu Tyr Pro Gly His Tyr Gly Glu Glu Met Asp Met Ile
      145              150              155              160
Ser Tyr Asn Tyr Asp Tyr Tyr Ile Arg Gly Ala Thr Thr His Phe Leu
      165              170              175
Cys Ser Gly Lys Gly Ser Pro Ser Gly Ser Ser *
      180              185              187

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<210> 1275
<211> 81
<212> PRT
<213> Homo sapiens

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      <400> 1275
Met Val Ala Leu Thr Ile Gln Thr Trp His Trp Leu Met Thr Val Ala
 1              5              10              15
Glu Leu Leu Ser Leu Ala Cys Tyr Ile Ala Ser Leu Val Phe Leu His
      20              25              30
Glu Phe Ile Asp Val Tyr Phe Ile Ala Thr Leu Ser Phe Leu Trp Lys
      35              40              45
Val Ser Val Ile Thr Leu Val Ser Cys Leu Pro Leu Tyr Val Leu Lys
      50              55              60
Tyr Leu Arg Arg Arg Phe Ser Pro Pro Ser Tyr Ser Lys Leu Thr Ser
      65              70              75              80
*
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<210> 1276
<211> 46
<212> PRT
<213> Homo sapiens

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      <400> 1276
Met Leu Asp Leu Val Ala Leu Leu Tyr Gln Ala Val Leu Leu Pro Ala
 1              5              10              15
Ile Leu Leu Leu Pro Leu Cys Gln Leu Glu Met Phe Leu Met Leu Gln
      20              25              30
Leu Asn Arg Gln Ser Leu Lys Lys Lys Tyr Leu Ile Leu *
      35              40              45

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<210> 1277

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<211> 431  
 <212> PRT  
 <213> Homo sapiens

<400> 1277  
 Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu  
 1 5 10 15  
 Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala  
 20 25 30  
 Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu  
 35 40 45  
 Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val  
 50 55 60  
 Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val  
 65 70 75 80  
 Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val  
 85 90 95  
 Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu  
 100 105 110  
 Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly  
 115 120 125  
 Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr  
 130 135 140  
 Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala  
 145 150 155 160  
 Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys  
 165 170 175  
 Leu Ala Gly Phe Ala Pro Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys  
 180 185 190  
 Ile Asn Thr Asp Glu Ile Met Thr Ser Leu Lys Ser Val Asn Gly Gln  
 195 200 205  
 Ile Glu Ser Leu Ile Ser Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg  
 210 215 220  
 Asn Cys Arg Asp Leu Lys Phe Cys His Pro Glu Leu Lys Ser Gly Glu  
 225 230 235 240  
 Tyr Trp Val Asp Pro Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val  
 245 250 255  
 Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu  
 260 265 270  
 Asn Val Pro Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys  
 275 280 285  
 His Val Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr  
 290 295 300  
 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe  
 305 310 315 320  
 Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His Cys  
 325 330 335  
 Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val Lys Lys  
 340 345 350  
 Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly  
 355 360 365  
 Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly Cys Thr Lys His  
 370 375 380  
 Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala  
 385 390 395 400  
 Val Arg Leu Pro Ile Val Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro  
 405 410 415  
 Asp Gln Glu Phe Gly Val Asp Val Gly Pro Val Cys Phe Leu \*



420

425

430

<210> 1278  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1278  
 Met Leu Leu Tyr Val Phe Lys Phe Leu Gly Leu Phe Gln Phe Phe His  
   1                  5                  10                  15  
 Ser Phe Cys Thr Ala Tyr Gly Pro Pro Gly Gly Cys Gly Asp Ser Gly  
           20                  25                  30  
 Glu Glu Thr Ser Leu Phe Phe Glu Gln Leu Asp Pro Ala Phe Trp Leu  
           35                  40                  45  
 Ala Asn Cys Ser \*  
       50          52

<210> 1279  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1279  
 Met Leu Gly Ser Ile Cys Asn Val Met Leu Leu Met Leu Ala Ala Ser  
   1                  5                  10                  15  
 Ile Pro Glu Ile Cys Thr Phe Gly Pro Thr Lys Leu Ala Ala Asn Cys  
           20                  25                  30  
 Asn Trp Met Pro Ser Arg Val Ala Arg Leu Pro Ser Val Arg Asp Thr  
           35                  40                  45  
 Val Arg Ser Pro Pro Ala Asp Thr Glu Ala Gly Arg Ile Ala Trp Pro  
           50                  55                  60  
 Thr Ser Pro Gly Cys Ser Arg Phe \*  
       65                  70          72

<210> 1280  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1280  
 Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro Val Leu Asp Val  
   1                  5                  10                  15  
 His Thr His Leu Gly Cys Ile Ile Cys Val Phe Asp Val Ala Leu Ser  
           20                  25                  30  
 Arg Glu Leu Ala Leu Leu Cys Arg Lys Ser Asn Trp Trp Val Ile Asn  
           35                  40                  45  
 Trp Leu \*  
       50

<210> 1281  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 1281  
 Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu  
 1 5 10 15  
 Leu Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile  
 20 25 30  
 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg  
 35 40 45  
 Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile  
 50 55 60  
 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val  
 65 70 75 80  
 Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu  
 85 90 95  
 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe  
 100 105 110  
 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile  
 115 120 125  
 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Gly His Gln Asp \*  
 130 135 140 143

<210> 1282  
 <211> 267  
 <212> PRT  
 <213> Homo sapiens

<400> 1282  
 Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp Gln  
 1 5 10 15  
 Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala Pro Thr  
 20 25 30  
 Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val Ala Glu Gly  
 35 40 45  
 Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu Asn Leu Tyr Ser  
 50 55 60  
 Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro Asn Gln Leu Ile Ala  
 65 70 75 80  
 Ala Tyr Val Ile Asp Asp Thr His Val Arg Thr Pro Gly Pro Ala Tyr  
 85 90 95  
 Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly Asp Leu His Phe Gln Asn  
 100 105 110  
 Val Thr Leu Glu Asp Thr Gly Tyr Tyr Asn Leu Gln Val Thr Tyr Arg  
 115 120 125  
 Asn Ser Gln Ile Glu Gln Ala Ser His His Leu Arg Val Tyr Gln Val  
 130 135 140  
 Ser Gly Leu Thr Pro Pro Ser Lys Pro Ala Ala Pro Gln Ser Pro Arg  
 145 150 155 160  
 Arg Ala Pro Gly Val Leu Thr Cys His Thr Asn Asn Thr Gly Thr Ser  
 165 170 175  
 Phe Gln Trp Ile Phe Asn Asn Gln Arg Leu Gln Val Thr Lys Arg Met

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      180      185      190
Lys Leu Ser Trp Phe Asn His Met Leu Thr Ile Asp Pro Ile Arg Gln
      195      200      205
Glu Asp Ala Gly Glu Tyr Gln Cys Glu Val Ser Asn Pro Val Ser Ser
      210      215      220
Asn Arg Ser Asp Pro Leu Lys Leu Thr Val Lys Ser Asp Asp Asn Thr
      225      230      235      240
Leu Gly Ile Leu Ile Gly Val Leu Val Gly Ser Leu Leu Val Ala Ala
      245      250      255
Leu Val Cys Phe Leu Leu Leu Arg Lys Thr Gly
      260      265      267

```

```

<210> 1283
<211> 262
<212> PRT
<213> Homo sapiens

```

```

      <400> 1283
Met Leu Val Leu Leu Val Leu Arg Val Ser Leu Ala Ala Leu Val Lys
  1      5      10      15
Met Glu Leu Leu Val Arg Trp Ala Pro Val Ala Cys Leu Val Arg Glu
      20      25      30
Val Ala Leu Glu Pro Leu Ala Leu Leu Val Leu Val Glu Met Met Val
      35      40      45
Leu Leu Val Leu Pro Gly Pro Leu Val Pro Pro Ala Pro Leu Val Leu
  50      55      60
Leu Ala Ser Leu Val Leu Leu Val Leu Arg Val Lys Leu Val Pro Lys
  65      70      75      80
Gly Pro Glu Ala Leu Lys Val Pro Arg Val Cys Val Val Ser Leu Ala
      85      90      95
Pro Leu Ala Leu Leu Val Leu Leu Ala Leu Leu Glu Thr Leu Val Leu
      100      105      110
Arg Glu Ser Leu Val Leu Lys Val Pro Met Val Leu Leu Val Leu Leu
      115      120      125
Val Leu Leu Ala Ser Leu Val Pro Glu Ala Pro Leu Asp Pro Arg Ala
      130      135      140
Pro Ala Ala Leu Leu Val Pro Arg Val Thr Ala Val Asn Leu Val Leu
  145      150      155      160
Leu Ala Ala Lys Glu Thr Leu Val Leu Arg Glu Ser Leu Ala Leu Leu
      165      170      175
Val Phe Lys Asp Pro Leu Ala Leu Leu Glu Arg Lys Glu Ser Glu Glu
      180      185      190
Leu Glu Val Asn Pro Asp Pro Leu Ala Cys Pro Asp Pro Leu Ala Ser
      195      200      205
Val Val Asp Leu Val Ala Val Val Ser Leu Ala Gln Met Val Leu Leu
      210      215      220
Val Pro Arg Val Pro Leu Val Asn Val Val Leu Leu Ala Leu Leu Ala
  225      230      235      240
Pro Lys Asp Leu Leu Val Lys Leu Val Val Pro Val Lys Leu Val Cys
      245      250      255
Leu Val Pro Arg Val *
      260      261

```

```

<210> 1284

```

<211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1284  
 Met Val Ile Leu Pro Leu Leu Leu Leu Ile Thr Thr Pro Pro Met Thr  
 1 5 10 15  
 Phe Leu Ala Phe Leu Leu Thr Leu Ile Leu Ser Cys Lys Asn Cys Ser  
 20 25 30  
 Lys Leu Ala Ala Ser Met Ile Arg Leu Leu Trp Gly Gly Cys Asn Gln  
 35 40 45  
 Glu \*  
 49

<210> 1285  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens

<400> 1285  
 Met Leu Val Met Ala Pro Arg Thr Val Leu Leu Leu Leu Ser Ala Ala  
 1 5 10 15  
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe  
 20 25 30  
 Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser  
 35 40 45  
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala  
 50 55 60  
 Ala Ser Pro Arg Glu Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly  
 65 70 75 80  
 Pro Glu Tyr Trp Asp Arg Asn Thr Gln Ile Tyr Lys Ala Gln Ala Gln  
 85 90 95  
 Thr Asp Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser  
 100 105 110  
 Glu Ala Gly Ser His Thr Leu Gln Ser Met Tyr Gly Cys Asp Val Gly  
 115 120 125  
 Pro Asp Gly Arg Leu Leu Arg Gly His Asp Gln Tyr Ala Tyr Asp Gly  
 130 135 140  
 Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala  
 145 150 155 160  
 Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu  
 165 170 175  
 Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Glu Cys Val Glu Trp Leu  
 180 185 190  
 Arg Arg Tyr Leu Glu Asn Gly Lys Asp Lys Leu Glu Arg Ala Asp Pro  
 195 200 205  
 Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr  
 210 215 220  
 Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr  
 225 230 235 240  
 Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu  
 245 250 255  
 Thr Arg Pro Ala Gly Asp Arg Thr Phe Gln Lys Val Gly Gln Leu Trp  
 260 265 270  
 Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His

```

      275      280      285
Val Gly Ala Ala Glu Ala Pro His Pro Ser Glu Met Gly Ser Gly Leu
      290      295      300
Pro Ser Ser Thr Val Pro His Arg Trp Ala Leu Val Leu Gly Leu Gly
305      310      315      320
Cys Pro *
      322

```

```

<210> 1286
<211> 306
<212> PRT
<213> Homo sapiens

```

```

      <400> 1286
Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
  1      5      10      15
Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
      20      25      30
Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
      35      40      45
Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
      50      55      60
Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
      65      70      75      80
Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
      85      90      95
Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
      100      105      110
Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn
      115      120      125
Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
      130      135      140
Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
      145      150      155      160
Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
      165      170      175
Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
      180      185      190
Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
      195      200      205
Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
      210      215      220
Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
      225      230      235      240
Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
      245      250      255
Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
      260      265      270
Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
      275      280      285
Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Pro Leu Ala Thr Ala Gly
      290      295      300
Pro *
305

```

<210> 1287  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 1287  
 Met Gly Arg Trp Ala Leu Asp Val Ala Phe Leu Trp Lys Ala Val Leu  
 1 5 10 15  
 Thr Leu Gly Leu Val Leu Leu Tyr Tyr Cys Phe Ser Ile Gly Ile Thr  
 20 25 30  
 Phe Tyr Asn Lys Trp Leu Thr Lys Ser Phe His Phe Pro Leu Phe Met  
 35 40 45  
 Thr Met Leu His Leu Ala Val Ile Phe Leu Phe Ser Ala Leu Ser Arg  
 50 55 60  
 Ala Leu Val Gln Cys Ser Ser His Arg Ala Arg Val Val Leu Ser Trp  
 65 70 75 80  
 Ala Asp Tyr Leu Arg Arg Val Ala Pro Thr Ala Leu Ala Thr Ala Leu  
 85 90 95  
 Asp Val Gly Leu Ser Asn Trp Ser Phe Leu Tyr Val Thr Val Ser Leu  
 100 105 110  
 Tyr Thr Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser  
 115 120 125  
 Leu Ile Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val  
 130 135 140  
 Leu Leu Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln  
 145 150 155 160  
 Phe Asn Val Glu Gly Phe Ala Leu Val Leu Gly Ala Ser Phe Ile Gly  
 165 170 175  
 Gly Ile Arg Trp Thr Leu Thr Gln Met Leu Leu Gln Lys Ala Glu Leu  
 180 185 190  
 Gly Leu Gln Asn Pro Ile Asp Thr Met Phe His Leu Gln Pro Leu Met  
 195 200 205  
 Phe Leu Gly Leu Phe Pro Leu Phe Ala Val Phe Glu Gly Leu His Leu  
 210 215 220  
 Ser Thr Ser Glu Lys Ile Phe Arg Phe Gln Gly His Arg Ala Ala Pro  
 225 230 235 240  
 Ala Gly Thr Trp Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val  
 245 250 255  
 Trp Ala Ser Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu  
 260 265 270  
 Ser Pro Leu Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln  
 275 280 285  
 Leu Ile Cys Trp Ala Ile Arg Ser Ala Ser \*  
 290 295 298

<210> 1288  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 1288  
 Met Glu Ser Ala Leu Pro Ala Ala Gly Phe Leu Tyr Trp Val Gly Ala  
 1 5 10 15  
 Gly Thr Val Ala Tyr Leu Ala Leu Arg Ile Ser Tyr Ser Leu Phe Thr

```

      20      25      30
Ala Leu Arg Val Trp Gly Val Gly Asn Glu Ala Gly Val Gly Pro Gly
      35      40      45
Leu Gly Glu Trp Ala Val Val Thr Gly Ser Thr Asp Gly Ile Gly Lys
      50      55      60
Ser Tyr Ala Glu Glu Leu Ala Lys His Gly Met Lys Val Val Leu Ile
      65      70      75      80
Ser Arg Ser Lys Asp Lys Leu Asp Gln Val Ser Ser Glu Ile Lys Glu
      85      90      95
Lys Phe Lys Val Glu Thr Arg Thr Ile Ala Val Asp Phe Ala Ser Glu
      100      105      110
Asp Ile Tyr Asp Lys Ile Lys Thr Gly Leu Ala Gly Leu Glu Ile Gly
      115      120      125
Ile Leu Val Asn Asn Val Gly Met Ser Tyr Glu Tyr Pro Glu Tyr Phe
      130      135      140
Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Asn Asp Lys Tyr
      145      150      155      160
*
```

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<210> 1289
<211> 46
<212> PRT
<213> Homo sapiens
```

```

      <400> 1289
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
      1      5      10      15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
      20      25      30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
      35      40      45
```

```

<210> 1290
<211> 453
<212> PRT
<213> Homo sapiens
```

```

      <400> 1290
Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu Ser
      1      5      10      15
Leu Ser Thr Thr Phe Ser Leu Gln Pro Asp Gln Gln Lys Val Leu Leu
      20      25      30
Val Ser Phe Asp Gly Phe Arg Trp Asp Tyr Leu Tyr Lys Val Pro Thr
      35      40      45
Pro His Phe His Tyr Ile Met Lys Tyr Gly Val His Val Lys Gln Val
      50      55      60
Thr Asn Val Phe Ile Thr Lys Thr Tyr Pro Asn His Tyr Thr Leu Val
      65      70      75      80
Thr Gly Leu Phe Ala Glu Asn His Gly Ile Val Ala Asn Asp Met Phe
      85      90      95
Asp Pro Ile Arg Asn Lys Ser Phe Ser Leu Asp His Met Asn Ile Tyr
      100      105      110
```

```

Asp Ser Lys Phe Trp Glu Glu Ala Thr Pro Ile Trp Ile Thr Asn Gln
    115                      120                      125
Arg Ala Gly His Thr Ser Gly Ala Ala Met Trp Pro Gly Thr Asp Val
    130                      135                      140
Lys Ile His Lys Arg Phe Pro Thr His Tyr Met Pro Tyr Asn Glu Ser
    145                      150                      155                      160
Val Ser Phe Glu Asp Arg Val Ala Lys Ile Ile Glu Trp Phe Thr Ser
                      165                      170                      175
Lys Glu Pro Ile Asn Leu Gly Leu Leu Tyr Trp Glu Asp Pro Asp Asp
                      180                      185                      190
Met Gly His His Leu Gly Pro Asp Ser Pro Leu Met Gly Pro Val Ile
                      195                      200                      205
Ser Asp Ile Asp Lys Lys Leu Gly Tyr Leu Ile Gln Met Leu Lys Lys
    210                      215                      220
Ala Lys Leu Trp Asn Thr Leu Asn Leu Ile Ile Thr Ser Asp His Gly
    225                      230                      235                      240
Met Thr Gln Cys Ser Glu Glu Arg Leu Ile Glu Leu Asp Gln Tyr Leu
                      245                      250                      255
Asp Lys Asp His Tyr Thr Leu Ile Asp Gln Ser Pro Val Ala Ala Ile
                      260                      265                      270
Leu Pro Lys Glu Gly Lys Phe Asp Glu Val Tyr Glu Ala Leu Thr His
                      275                      280                      285
Ala His Pro Asn Leu Thr Val Tyr Lys Lys Glu Asp Val Pro Glu Arg
    290                      295                      300
Trp His Tyr Lys Tyr Asn Ser Arg Ile Gln Pro Ile Ile Ala Val Ala
    305                      310                      315                      320
Asp Glu Gly Trp His Ile Leu Gln Asn Lys Ser Asp Asp Phe Leu Leu
                      325                      330                      335
Gly Asn His Gly Tyr His Asn Ala Leu Ala Asp Met His Pro Ile Phe
                      340                      345                      350
Leu Ala His Gly Pro Ala Phe Arg Lys Asn Phe Ser Lys Glu Ala Met
                      355                      360                      365
Asn Ser Thr Asp Leu Tyr Pro Leu Leu Cys His Leu Leu Asn Ile Thr
    370                      375                      380
Ala Met Pro His Asn Gly Ser Phe Trp Asn Val Gln Asp Leu Leu Asn
    385                      390                      395                      400
Ser Ala Met Pro Arg Val Val Pro Tyr Thr Gln Ser Thr Ile Leu Leu
                      405                      410                      415
Pro Gly Ser Val Lys Pro Ala Glu Tyr Asp Gln Glu Gly Ser Tyr Pro
                      420                      425                      430
Tyr Phe Ile Gly Val Ser Leu Gly Ser Ile Ile Val Ile Val Phe Phe
                      435                      440                      445
Cys Asn Phe His *
    450                      452

```

&lt;210&gt; 1291

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(78)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1291

Met Leu Ser Val Thr Ala Phe Ile Leu Ala Glu Thr Val Leu Ala Ser



```

      1           5           10           15
Gln Glu Val Gln Gly Gly Val Gln Val Arg Val Tyr Leu Met Asn Ala
      20           25           30
Val Pro Asp Gly Leu Gln Gly Gly Ser Pro Val Gly Gly Leu Gly Leu
      35           40           45
Leu Leu Ala Pro Asp Asn Ser Gly His Arg Arg Ser Ser Cys Arg Ile
      50           55           60
Pro Ala Ala Arg Val Tyr Xaa Xaa Xaa Xaa Pro Arg Pro Pro
      65           70           75           78

```

<210> 1292  
 <211> 416  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1292
Met Val Leu Trp Ile Leu Trp Arg Pro Phe Gly Phe Ser Gly Arg Phe
      1           5           10           15
Leu Lys Leu Glu Ser His Ser Ile Thr Glu Ser Lys Ser Leu Ile Pro
      20           25           30
Val Ala Trp Thr Ser Leu Thr Gln Met Leu Leu Glu Ala Pro Gly Ile
      35           40           45
Phe Leu Leu Gly Gln Arg Lys Arg Phe Ser Thr Met Pro Glu Thr Glu
      50           55           60
Thr His Glu Arg Glu Thr Glu Leu Phe Ser Pro Pro Ser Asp Val Arg
      65           70           75           80
Gly Met Thr Lys Leu Asp Arg Thr Ala Phe Lys Lys Thr Val Asn Ile
      85           90           95
Pro Val Leu Lys Val Arg Lys Glu Ile Val Ser Lys Leu Met Arg Ser
      100          105          110
Leu Lys Arg Ala Ala Leu Gln Arg Pro Gly Ile Arg Arg Val Ile Glu
      115          120          125
Asp Pro Glu Asp Lys Glu Ser Arg Leu Ile Met Leu Asp Pro Tyr Lys
      130          135          140
Ile Phe Thr His Asp Ser Phe Glu Lys Ala Glu Leu Ser Val Leu Glu
      145          150          155          160
Gln Leu Asn Val Ser Pro Gln Ile Ser Lys Tyr Asn Leu Glu Leu Thr
      165          170          175
Tyr Glu His Phe Lys Ser Glu Glu Ile Leu Arg Ala Val Leu Pro Glu
      180          185          190
Gly Gln Asp Val Thr Ser Gly Phe Ser Arg Ile Gly His Ile Ala His
      195          200          205
Leu Asn Leu Arg Asp His Gln Leu Pro Phe Lys His Leu Ile Gly Gln
      210          215          220
Val Met Ile Asp Lys Asn Pro Gly Ile Thr Ser Ala Val Asn Lys Ile
      225          230          235          240
Asn Asn Ile Asp Asn Met Tyr Arg Asn Phe Gln Met Glu Val Leu Ser
      245          250          255
Gly Glu Gln Asn Met Met Thr Lys Val Arg Glu Asn Asn Tyr Thr Tyr
      260          265          270
Glu Phe Asp Phe Ser Lys Val Tyr Trp Asn Pro Arg Leu Ser Thr Glu
      275          280          285
His Ser Arg Ile Thr Glu Leu Lys Pro Gly Asp Val Leu Phe Asp
      290          295          300
Val Phe Ala Gly Val Gly Pro Phe Ala Ile Pro Val Ala Lys Lys Asn
      305          310          315          320

```

```

Cys Thr Val Phe Ala Asn Asp Leu Asn Pro Glu Ser His Lys Trp Leu
      325                      330                      335
Leu Tyr Asn Cys Lys Leu Asn Lys Val Asp Gln Lys Val Lys Val Phe
      340                      345                      350
Asn Leu Asp Gly Lys Asp Phe Leu Gln Gly Pro Val Lys Glu Glu Leu
      355                      360                      365
Met Gln Leu Leu Gly Leu Ser Lys Glu Arg Lys Pro Ser Val His Val
      370                      375                      380
Val Met Asn Leu Pro Ala Lys Ala Ile Glu Phe Leu Ser Ala Phe Lys
      385                      390                      395                      400
Trp Leu Leu Asp Gly Gln Pro Met Pro Ala Val Ser Ser Phe Pro *
      405                      410                      415

```

```

<210> 1293
<211> 113
<212> PRT
<213> Homo sapiens

```

```

<400> 1293
Met Val Arg Pro Leu Leu Leu Leu Asn Leu His Phe His Leu Pro Ser
  1                      5                      10                      15
Leu Val Ser Leu Ser Leu Ser Leu Leu Leu Ser Val Ser Leu Ser Leu
      20                      25                      30
Val Asn Ala Val Arg Leu Leu Arg Ala Ser Phe Cys Ser Trp Leu Ile
      35                      40                      45
Ala Lys Ser Leu Ile Thr Leu Trp Val Arg Pro Ser Gln Ile Gly Lys
      50                      55                      60
Leu Lys Ala Leu Ala Ser Ser Thr Thr Ser Met Ala Trp Glu Gly Leu
      65                      70                      75                      80
Leu Asp Thr Phe Ala Leu Ser Ile Ser Ser Phe Ser Asn Ser Leu Leu
      85                      90                      95
Gly Ile Leu Leu Cys Phe Leu Lys Ser Pro Asn Ile Phe Gln Ala Ser
      100                      105                      110                      112
*
```

```

<210> 1294
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1294
Met Asp Phe Leu Met Leu Ala Val Cys Ala His Arg Leu Cys Phe Leu
  1                      5                      10                      15
Tyr Leu Phe Ile Leu Tyr Glu Ser Lys Asn Lys Arg Glu Cys Glu Gln
      20                      25                      30
Phe Arg Arg Leu Gln Ile Tyr Leu Val Arg Leu Leu Ser Lys Arg Phe
      35                      40                      45
Pro Val Val Val Ile Pro Ala Val *
      50                      55 56

```

<210> 1295  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1295  
 Met Phe Leu Ser Leu Cys Leu Leu Ser Ala Ala Leu Thr Lys Ile Ser  
 1 5 10 15  
 Ser Lys Ile Leu Tyr Lys Pro Gly Thr Lys Val Thr Ser Leu Gln Phe  
 20 25 30  
 Ile Pro Thr Ser Ser Ser Tyr Thr His Met Asn Cys Val Asn Gly Ser  
 35 40 45  
 Thr Asp Pro Ile Tyr Val Ser Gly Arg Arg Arg Met Cys Ser Ser Cys  
 50 55 60  
 Val Phe Ile \*  
 65 67

<210> 1296  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 1296  
 Met Trp Ser Ala His Pro Leu Ala Val Leu Ser Leu Lys Leu Thr Leu  
 1 5 10 15  
 Phe Ser Leu Thr Ser Asp Trp Leu Ser Ser Lys Asp Met Ala Ile Ser  
 20 25 30  
 Leu Ala Phe Lys Ile Ser Gln Ile Leu Cys Ser Val Leu Ser Ala Pro  
 35 40 45  
 Gly Lys Arg Leu Ile Ser Val Leu Trp Asn Thr Ser Ser Leu Lys Arg  
 50 55 60  
 Ser \*  
 65

<210> 1297  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1297  
 Met Leu His Ser Gln Leu Leu Ala Val Ser Phe Arg Leu Ile Val Thr  
 1 5 10 15  
 Leu Pro Leu Ser Ile Gln Asp Trp Asp Ala Glu Asn Met Lys Gly  
 20 25 30  
 Leu Gln Tyr Ile Phe Asn Thr Leu Trp Ser Val Ser Ser Pro Val Ile  
 35 40 45  
 Thr Ser Ile Leu Ser Ser Lys His \*  
 50 55 56

<210> 1298

<211> 235  
 <212> PRT  
 <213> Homo sapiens

<400> 1298  
 Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser  
 1 5 10 15  
 Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys  
 20 25 30  
 Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe  
 35 40 45  
 Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro  
 50 55 60  
 Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val  
 65 70 75 80  
 Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu  
 85 90 95  
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln  
 100 105 110  
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg  
 115 120 125  
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn  
 130 135 140  
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys  
 145 150 155 160  
 Ala Leu Cys Pro Leu Tyr Thr Thr Pro Arg Thr Val Thr Gln Ala Pro  
 165 170 175  
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu  
 180 185 190  
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile  
 195 200 205  
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu  
 210 215 220  
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro \*  
 225 230 234

<210> 1299  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1299  
 Met Arg Trp Lys Val Gln Val Asn Ser Leu Met Val Leu Pro Ser Leu  
 1 5 10 15  
 Thr Val Cys Tyr Ser Thr His Leu Ser Thr Gly Cys Arg His Ile Lys  
 20 25 30  
 Val Asn Val Gln Val Leu Glu Asn Ile Gln Arg Ile Leu Asn Val Gln  
 35 40 45  
 Asn Ser Glu Lys Gln Ile Tyr Ala Glu Cys Val Val Gly Ala Phe \*  
 50 55 60 63

<210> 1300  
 <211> 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1300

```

Met Ala Ser Arg Ser Asn Tyr Leu Thr Glu Thr Leu Thr Pro Phe Pro
 1          5          10          15
Ala Leu Leu Ser Leu Phe Met Leu Tyr Leu Ser His Thr Gly Phe Asp
          20          25          30
Asn Ile Ile Pro Thr Phe Pro Thr Lys Pro Ala Tyr Thr Leu His Arg
          35          40          45
Leu Leu Pro His Cys Pro Asp Ile His Ile Ala Tyr Ser Leu Ile Ser
          50          55          60
Ser His Leu Phe Ala Gln Gly Ala Ser Leu Ser Thr Arg Thr His *
          65          70          75          79

```

&lt;210&gt; 1301

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1301

```

Met Arg Phe Arg Ala Glu Pro Lys Ser Arg Pro Leu Pro Ala Leu Cys
 1          5          10          15
His Val Leu Ile Ala Cys Ile Val Phe Arg Trp Ala Phe Ala Gln Pro
          20          25          30
Leu Pro Ser Ser Arg Ser Tyr Arg Ser Ser Gly Glu Phe Pro Arg Ser
          35          40          45
Pro Ser Phe Lys Lys Thr Lys Thr Pro Ser Trp Gly Glu Arg Arg Val
          50          55          60
Leu Leu Tyr Ser Arg Met Leu Arg Ala Asn Leu Arg Met Trp Arg Glu
          65          70          75          80
Tyr Trp Ser Gln Lys Ser Ile
          85          87

```

&lt;210&gt; 1302

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1302

```

Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Leu Thr Leu
 1          5          10          15
Gln Asn Ala Thr Thr Glu Thr Trp Glu Leu Leu Ser Tyr Met Glu
          20          25          30
Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln
          35          40          45
Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr
          50          55          60
Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu
          65          70          75          80
Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg
          85          90          95

```

Val Pro Gln Ala Gly Gly Gln His Ala Arg Gly Gln His Ala Met Gln  
                   100                  105                  110  
 Phe Pro Ala Glu Leu Thr Arg Asp Ala Cys Lys Thr Arg Pro Arg Glu  
                   115                  120                  125  
 Leu Arg Leu Ile Cys Ile Tyr Phe Ser Asn Thr His Phe Phe Lys  
           130                  135                  140                  143

<210> 1303  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1303  
 Met Ile Leu Leu Met Ser Ala Ala Ile Phe Cys Ser Ala Glu Val Phe  
   1                  5                  10                  15  
 Thr Arg Gly Ser Phe Phe Ser Asp Met Leu Thr Leu Asp Arg Val Lys  
                   20                  25                  30  
 Ala Lys Gly Leu Gln Gly Glu Gly Ala Ala Ser Thr Cys Ala Leu Ala  
                   35                  40                  45  
 Ala Asp Ser Gln Gly Ser Gly Ala Ser Gly Thr Lys  
           50                  55                  60

<210> 1304  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1304  
 Met Lys Met Met Phe Ile Ile Thr Asn Trp Leu Asn Tyr Tyr Phe Leu  
   1                  5                  10                  15  
 Leu Phe Ser Pro Ser Asn Pro Gln Ile Gln Ser Ile Leu His Glu Val  
                   20                  25                  30  
 Ala Pro Leu Trp Phe Arg Thr Leu Tyr Thr Leu Leu Arg Gly Cys Ser  
                   35                  40                  45  
 Thr Trp Lys Gly Leu Ser Ser \*  
           50                  55

<210> 1305  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 1305  
 Met Asn Ile Ile Phe Ile Tyr Leu Ala Thr Ser Leu Ala Phe Leu Ile  
   1                  5                  10                  15  
 Ile Asn Leu Ser Gln Leu Leu Phe Thr Glu Tyr Leu His Phe Arg Cys  
                   20                  25                  30  
 Cys Ser Lys Cys Ser Thr Cys Ile Asn Leu Leu Ser His His Glu Trp  
                   35                  40                  45  
 Glu Leu Leu Pro Ser Ser Tyr Arg Arg Gly Ser Arg Ser Pro \*

50

55

60

62

&lt;210&gt; 1306

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1306

```

Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1          5          10          15
Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
          20          25          30
Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
          35          40          45
Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
          50          55          60
Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
          65          70          75          80
Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Pro Asp Phe
          85          90          95
Tyr Pro Pro Ala Tyr Glu Glu Ser Leu Glu Val Glu Lys Gln Ser Cys
          100          105          110
Pro Ala Glu Arg Glu Ala Pro Arg His Ser Ser Thr Ser Ile Tyr Arg
          115          120          125
Asp Gly Pro Gly Ile Pro Gly Trp Lys *
          130          135          137

```

&lt;210&gt; 1307

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1307

```

Met Met Ala Ile Lys Pro Thr Ile Leu Val Thr Gln Gly Leu Ile Leu
 1          5          10          15
Cys Trp Lys Cys His Lys Met Ile Cys Ser Tyr Phe Asn Leu Gln Leu
          20          25          30
Glu Arg His Phe Leu Glu Thr Ile Gln Ser Asp Ser Phe Met Glu Lys
          35          40          45
Leu Thr Leu Thr Asp Leu Thr Ile Tyr Arg Ile His Val Ala Thr His
          50          55          60          64

```

&lt;210&gt; 1308

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1308

```

Met Pro Cys Ser Gly Ser Ser Val Gln Thr Phe Arg Pro Leu Leu Ile
 1          5          10          15
Phe His Asn Val Thr Phe Phe Ile Leu Pro Val Lys Cys Phe Asn Ala
          20          25          30
Leu Ile Asn Val Leu Glu Arg Pro Phe Trp Gln Leu Leu Gly Glu Ile
          35          40          45
Gly Glu Glu Tyr Arg Gly Ser Glu Asp Trp Leu Gly Gly Ser Phe Arg
 50          55          60          64
*
```

```

<210> 1309
<211> 75
<212> PRT
<213> Homo sapiens
```

```

<400> 1309
Met Arg Ile Trp His Arg Trp Leu Leu Val Arg Ile Leu Phe Pro Ala
 1          5          10          15
Pro Gly Leu Gln Thr Ala Thr Phe Ser Val Cys Phe His Val Ala Glu
          20          25          30
Ser Glu Leu Trp His Leu Leu Cys Phe Phe Phe Phe Leu Ala Leu Leu
          35          40          45
Pro Pro Arg Trp Lys Ala Arg Gly Pro Ile Trp Val His Gly Thr Leu
 50          55          60
Gly Phe Arg Val Gly Arg Asn Phe Leu Ala *
65          70          74
```

```

<210> 1310
<211> 46
<212> PRT
<213> Homo sapiens
```

```

<400> 1310
Met Lys Leu Gly Asp Val Phe Val Lys Leu Leu Val Ser Leu Ala Gly
 1          5          10          15
Glu Ile Leu Leu Ala Pro Leu Val Ser Ala Ser Gly Met Gly Pro Ala
          20          25          30
Gly Val Glu Ala Leu Glu Glu Val Ser Ala Leu Ser Val *
          35          40          45
```

```

<210> 1311
<211> 105
<212> PRT
<213> Homo sapiens
```

```

<400> 1311
Met Tyr Trp Val Thr Val Ile Thr Leu Ile Tyr Gly Tyr Tyr Ala Trp
 1          5          10          15
Val Gly Phe Trp Pro Glu Ser Ile Pro Tyr Gln Asn Leu Gly Pro Leu
```



```

      20      25      30
Gly Pro Leu Thr Gln Tyr Leu Met Asp His His His Thr Leu Leu Cys
      35      40      45
Asn Gly Tyr Trp Leu Ala Trp Leu Ile His Val Gly Glu Ser Leu His
      50      55      60
Ala Ile Leu Leu Gly Glu Arg Lys Gly Ile Thr Ser Gly Arg Ser Gln
      65      70      75      80
Leu Leu Trp Leu Leu Gln Thr Leu Phe Phe Gly Ile Thr Thr Leu Thr
      85      90      95
Ile Phe Asp Ala Tyr Lys Arg Lys Arg
      100      105

```

```

<210> 1312
<211> 114
<212> PRT
<213> Homo sapiens

```

```

<400> 1312
Met Lys Gly Lys Trp Cys Cys Ser Leu Leu Cys Gln Ser Pro Gln Val
  1      5      10      15
Gln Thr Ala Leu Val Cys Pro Leu Ser Leu Ser Leu Gly Pro Pro Gly
      20      25      30
Pro Gln Cys Pro Leu Leu Trp Leu Gly Gln Glu Asp Leu Pro Asp Ile
      35      40      45
Ala Arg Cys Ile Thr Asp Asp Cys Ser Gln Leu Pro Gln Ala Pro Ala
      50      55      60
Ser Leu Ala Ser Cys Phe Phe Pro Gln Ser Cys Leu Leu Ile Ser Ile
      65      70      75      80
His Leu Ser Met Gly Tyr Ser Trp Thr Leu Gly Leu Gly Val Gly Ile
      85      90      95
Arg Leu Leu Pro Thr Lys Gly Val Lys Val Thr His Phe Pro Tyr His
      100      105      110
Ala *
113

```

```

<210> 1313
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1313
Met Ser Ser Ser Gly Gln Leu Gly His Pro Pro Arg Ala Pro His Ser
  1      5      10      15
Trp Arg Arg Trp Cys Trp Trp Leu Phe Met Leu Ala Thr Ser Leu Ser
      20      25      30
Arg Arg Arg Arg Pro Ser Thr Pro Leu Ile His Tyr Arg Val Phe Thr
      35      40      45
Val Asn His Lys Met Asp Pro Val Thr Arg Thr Phe Thr Leu Asp Ile
      50      55      60
Lys Val Val Phe Pro Asp Glu Gly Trp Gly Val Val Val Asp Pro Gly
      65      70      75      80
His Trp Gly Tyr Met Val Cys *
      85      87

```

<210> 1314  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 1314  
 Met Gly Gly Arg Leu Trp Ile Phe Leu Gln Leu Cys Gln Ser Leu Gly  
 1 5 10 15  
 Leu Ser Thr Val Ser Ser Arg Pro Val Ala Cys Leu Glu Ser Val  
 20 25 30  
 Pro Gly Met Cys Met Ser Val Cys Met Pro Leu Asn Tyr Arg Gly Ser  
 35 40 45  
 Asn Phe Ser Glu Thr Asp Val Trp Met Asp Leu Ser Arg Ala His Leu  
 50 55 60 64  
 \*

<210> 1315  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 1315  
 Met Leu Ile Pro Ile Pro Val His Ile Phe Pro Leu Ser Ser Leu Leu  
 1 5 10 15  
 Gly Asp Gly Thr Met Arg Leu Leu Pro Asp Ile Ser Ser Asp Trp Leu  
 20 25 30  
 Cys Leu Asn Gln Glu Phe Ala Pro Val Gln Ser Ala Ile Ala Met Glu  
 35 40 45  
 Trp Gly Ser Cys Val Gly Asp Gln Asp Asp Thr His Trp Ile Cys Leu  
 50 55 60  
 Arg Gln Thr Ser Gly Val \*  
 65 70

<210> 1316  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 1316  
 Met Ala Thr Pro Ser Ser Pro Trp Trp Ala His Ser Gly Leu Pro Pro  
 1 5 10 15  
 Leu Phe Ser Ser Gly Leu Ser Trp Arg Leu Val Pro Leu Phe Trp Cys  
 20 25 30  
 Leu Gln Ser Leu Thr Gly Phe Leu Gly Pro Cys Leu Pro Arg Thr Thr  
 35 40 45  
 Arg Ala Phe Leu Ser Leu Gln Ser Trp Asp Leu Pro Gly Thr Arg Pro  
 50 55 60  
 Gly Ser Gln Ala Gln Gly Phe Thr Ala Cys Asn Ala Ala Asn Thr Pro

```

      65              70              75              80
Gly Leu Ala Ala Leu Pro Gly Ser Gly Ala Phe Ser Val Ile Pro Val
      85              90              95
Ser Leu Leu Leu Pro Val Pro Glu Gly Leu Gly Arg Thr Tyr Leu Tyr
      100              105              110
Ser *
113

```

```

<210> 1317
<211> 91
<212> PRT
<213> Homo sapiens

```

```

      <400> 1317
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
  1              5              10              15
Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
      20              25              30
Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
      35              40              45
Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
      50              55              60
Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
      65              70              75              80
Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe *
      85              90

```

```

<210> 1318
<211> 65
<212> PRT
<213> Homo sapiens

```

```

      <400> 1318
Met Leu Pro Leu Ile Ser Ser Ile Lys Ile Leu Lys Leu Leu Tyr Tyr
  1              5              10              15
Phe Ser Val Trp Gly Trp Gly Phe Phe Phe Glu Thr Glu Phe Arg
      20              25              30
Ser Cys Cys Pro Gly Trp Ser Ala Met Val Arg Ser Gln Leu Thr Ala
      35              40              45
Thr Ser Thr Ser Arg Val Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu
      50              55              60              64
*

```

```

<210> 1319
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1319

```

```

Met Val Thr Leu Leu Ile Ala Lys Gln Phe Trp Ile Phe Thr Val Asp
 1             5             10             15
Leu His Leu Ser Asp Tyr Val Leu Glu Leu Ser Arg Tyr Leu Ile Asn
             20             25             30
Ala Cys Phe Tyr Ser Pro Cys Ser Gln Pro Ile Glu Lys *
             35             40             45

```

```

<210> 1320
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1320
Met Pro Ala Leu Leu Val Leu Lys Val Val Lys Val Leu Leu Pro Met
 1             5             10             15
Val Leu Thr Gly Leu Gly Val Glu Glu Leu Lys Glu Met Val Leu Leu
             20             25             30
Leu Pro Val Pro Cys Ala Ala Ile Ile Gly Ser Phe Lys Leu *
             35             40             45 46

```

```

<210> 1321
<211> 55
<212> PRT
<213> Homo sapiens

```

```

<400> 1321
Met Ile Cys Phe Cys Leu Pro Val Cys Pro Lys Thr His Leu Ala His
 1             5             10             15
Pro Met Leu Ala Thr Leu Ala Phe Val Ser Leu Leu Glu Tyr Ala Lys
             20             25             30
His Cys Leu Arg Asp Phe Ile Leu Val Ser Phe Leu Leu Gly Met Leu
             35             40             45
Phe Leu Arg Tyr Gln His *
             50             54

```

```

<210> 1322
<211> 301
<212> PRT
<213> Homo sapiens

```

```

<400> 1322
Met Lys Ile Ala Phe Gly Asn Leu Trp Met Glu Ile Leu Tyr Leu Lys
 1             5             10             15
Pro Pro Trp Thr Leu Leu His Leu Leu Gln Cys Phe Lys Lys His Trp
             20             25             30
Leu Ala Val Phe Gly Leu Val Met Glu Lys Asn Leu Leu Thr Ile
             35             40             45
Glu Ser Leu Tyr Lys Asn Leu Arg Lys Ala Asn Lys Ala Val Asp Phe
             50             55             60
Thr Thr Val Lys Phe Leu Leu Gln Asp Ser Arg Ser Leu Leu His Ala

```

65					70					75					80
Phe	Ser	Thr	Arg	Ser	Asn	Tyr	Asp	Gly	Ile	Leu	Pro	Gln	Thr	Phe	Ala
				85					90					95	
Gln	Val	Asn	Asn	Leu	Leu	Gln	Thr	Phe	Ala	Glu	Val	Lys	Thr	Lys	Leu
			100					105					110		
Lys	Pro	Asn	Ser	Ser	Glu	Asn	Thr	Val	Thr	Lys	Lys	Gln	Glu	Gly	Thr
		115					120					125			
Ser	Leu	Lys	Asn	Ser	His	Asn	Gln	Glu	Ile	Thr	Val	Phe	Ser	Ser	Ser
		130				135					140				
His	Leu	Pro	Gln	Pro	Ser	Arg	His	Gln	Glu	Ile	Trp	Ser	Ile	Leu	Glu
145					150					155				160	
Ser	Val	Trp	Ile	Thr	Ile	Tyr	Gln	Asn	Ser	Thr	Asp	Val	Phe	Gln	Arg
			165					170						175	
Leu	Gly	Ser	Asn	Ser	Ala	Leu	Thr	Thr	Ser	Asn	Ile	Ala	Ser	Phe	Glu
			180					185					190		
Glu	Ala	Phe	Ile	Cys	Leu	Gln	Lys	Leu	Met	Ala	Ala	Val	Arg	Asp	Ile
		195					200					205			
Leu	Glu	Gly	Ile	Gln	Arg	Ile	Leu	Ala	Pro	Asn	Ser	Asn	Tyr	Gln	Asp
210					215					220					
Val	Glu	Thr	Leu	Tyr	Asn	Phe	Leu	Ile	Lys	Tyr	Glu	Val	Asn	Lys	Asn
225					230					235				240	
Val	Lys	Phe	Thr	Ala	Gln	Glu	Ile	Tyr	Asp	Cys	Val	Ser	Gln	Thr	Glu
			245					250						255	
Tyr	Arg	Glu	Lys	Leu	Thr	Ile	Gly	Cys	Arg	Gln	Leu	Val	Glu	Met	Glu
		260					265						270		
Tyr	Thr	Met	Gln	Gln	Cys	Asn	Ala	Ser	Val	Tyr	Met	Glu	Ala	Lys	Asn
		275				280						285			
Arg	Gly	Trp	Cys	Glu	Asp	Met	Leu	Asn	Tyr	Arg	Ile	*			
	290					295					300				

<210> 1323  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

Met	Thr	Glu	His	Leu	Ala	Gln	Gln	Ser	Glu	Phe	Ala	Ala	Thr	Leu	Leu
1				5					10					15	
Leu	Leu	Trp	Ala	Pro	Leu	Lys	Thr	Gly	Arg	Leu	Thr	Asn	Ser	Phe	Val
		20						25				30			
Asn	Gly	Pro	Gly	Gln	His	Gly	Lys	Met	Cys	Cys	Ile	Leu	Pro	Pro	Lys
		35					40					45			
Thr	Pro	Val	Ser	Thr	Lys	Asn	Ala	Lys	Ile	Gly	Arg	Ala	Trp	Trp	Cys
	50					55					60				
Thr	Ser	Val	Ile	Pro	Ala	Thr	Trp	Glu	Ala	Asp	Thr	Gly	Glu	Ser	Leu
65					70					75					80
Glu	Pro	Gly	Arg	*											
			84												

<210> 1324  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1324

```

Met Leu His His Ser Gln Leu Ile Phe Val Phe Leu Val Gln Thr Gly
 1           5           10           15
Phe His His Val Ala Leu Ser Gly Phe Lys Leu Leu Ala Ser Ser Asn
           20           25           30
Leu Pro Thr Leu Asp Pro Lys Val Leu Gly Leu Gln Val *
      35           40           45

```

&lt;210&gt; 1325

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1325

```

Met Gly Leu Ser Lys Ala Phe Leu Ile Thr Arg Thr Val Phe Leu Ile
 1           5           10           15
Ser Ser Leu Ser Phe Tyr Ser Phe Leu Gly Phe Pro Ser Leu Cys Phe
           20           25           30
Thr Gly Ser Cys Met Leu Ser Thr Leu Phe Ile Arg Ala Leu Ser Ile
           35           40           45
Leu Val Ile Ile Val Leu Asn Ser Arg Ser Asp Lys Ser Asn Thr Pro
           50           55           60
Ala Ile Ser Glu Ser Gly Ser Asp Ala Cys Ser Phe Ser Ser Asn Phe
           65           70           75           80
Val Phe Cys Leu Leu Val *
           85 86

```

&lt;210&gt; 1326

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1326

```

Met Ser Leu Phe Leu Phe Phe Leu Met Phe Gln Val Leu Ser Glu Val
 1           5           10           15
Ser Trp Gly Gly Val Gly Ser Val Ser Asn Gln Gly Leu Glu His His
           20           25           30
Glu Ile Val Thr Pro Asp Leu Gln Ser Leu Ala Gly Gly Trp Thr Gly
           35           40           45
Gly Arg Glu Arg Gly Phe Leu Phe Thr Phe Asn Ile Phe Leu Gln Lys
           50           55           60
Lys Gln Thr Ile *
           65           68

```

&lt;210&gt; 1327

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(103)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1327

```

Met Val Gly Phe Gly Thr Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1          5          10          15
Val Leu Val Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
          20          25          30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Glu Glu Glu Val Ala Glu
          35          40          45
Leu Gln Gly Arg Val Gln Arg Ala Glu Val Ala Leu Trp Arg Val Gly
          50          55          60
Gly Arg Asn Cys Asp Leu Leu Val Val Gly Thr Arg Ser Arg Arg
          65          70          75          80
Ile Glu Glu Arg Gly Ala Asp Tyr Ser Arg Leu Ser Arg Arg Leu Gln
          85          90          95
Xaa Lys Glu Gly Leu Val Asn
          100          103

```

&lt;210&gt; 1328

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1328

```

Met Arg Ala Arg Pro Ala Cys Thr Ala Thr Phe Pro Ser Phe His Leu
 1          5          10          15
Ala Leu Asp Ser Ser Tyr Leu Pro Cys Cys Lys Gly Lys Ala Thr Phe
          20          25          30
Ile Pro Lys Ser Arg Ile Tyr Leu Gln Glu Ala Lys Gly Ser Gly Glu
          35          40          45
Pro Leu Gly *
          50  51

```

&lt;210&gt; 1329

&lt;211&gt; 204

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1329

```

Met Cys Thr Arg Asn Leu Ala Leu Leu Phe Ala Pro Ser Val Phe Gln
 1          5          10          15
Thr Asp Gly Arg Gly Glu His Glu Val Arg Val Leu Gln Glu Leu Ile
          20          25          30
Asp Gly Tyr Ile Ser Val Phe Asp Ile Asp Ser Asp Gln Val Ala Gln
          35          40          45
Ile Asp Leu Glu Val Ser Leu Ile Thr Thr Trp Lys Asp Val Gln Leu
          50          55          60
Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
          65          70          75          80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
          85          90          95

```

Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met  
                   100                  105                  110  
 Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg  
                   115                  120                  125  
 Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys  
                   130                  135                  140  
 Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Lys Lys Val Pro  
 145                  150                  155                  160  
 Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro  
                   165                  170                  175  
 Arg Val Gly Leu Phe Ala Val Phe Val Arg Ser His Leu Ala Cys Trp  
                   180                  185                  190  
 Gly Ser Arg Phe Gln Glu Arg Phe Phe Leu Val Ala  
                   195                  200                  204

<210> 1330  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<400> 1330  
 Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
   1                  5                  10                  15  
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His  
                   20                  25                  30  
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala  
                   35                  40                  45  
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg  
                   50                  55                  60  
 - Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu  
   65                  70                  75                  80  
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu  
                   85                  90                  95  
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr  
                   100                  105                  110  
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp  
                   115                  120                  125  
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro  
                   130                  135                  140  
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser  
 145                  150                  155                  160  
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu  
                   165                  170                  175  
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Leu His  
                   180                  185                  190  
 Thr Ala Ala Leu Pro Ala \*  
                   195                  198

<210> 1331  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 1331

```

Met Ala Arg Pro Ser Ala Phe Pro Ile Gly Val Cys Leu Thr Leu Pro
 1           5           10           15
Met Ala Trp Ile Ser Pro Gly Leu Ala Val Pro Ser Cys Pro Gln Tyr
           20           25           30
Ile Leu Gln Ala Gln Gly Cys Ile Leu Asp Met Lys Thr Arg Gly Ser
           35           40           45
His Gly Glu Ser Ala Val Pro Gly Ala His Gly Ser Arg Pro Phe His
           50           55           60
Pro Leu Ala Glu Pro Asn Pro Pro Arg Gln Lys Leu Thr Pro Cys Thr
 65           70           75           80
*
```

&lt;210&gt; 1332

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(73)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1332

```

Met Thr Ile Ile Leu Gln Ile Glu Thr Val Ile Phe Leu Leu Tyr Leu
 1           5           10           15
Ala Pro Asp Thr Val Arg Pro Leu Thr Ile Ile Thr Gly Met Ala Gly
           20           25           30
Ile Val Lys Gln Gln Ile Asp Ser His Ile Thr Asp Pro Asp Gln Gln
           35           40           45
Asn Asn Gly Leu Ser Leu Ser Gly Pro Pro Pro Ala Pro Asp Pro Leu
 50           55           60
Asp Xaa Leu Val Pro Thr Leu Trp Gly
 65           70           73
```

&lt;210&gt; 1333

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1333

```

Met Leu Val Tyr Ile Leu Trp Asn Met Tyr Phe Asn Val Cys Ile Val
 1           5           10           15
Pro Gly Val Ile Lys Ser Lys Thr Gly Thr Gln Asp Leu Ser Gly Leu
           20           25           30
Trp Pro Leu Gly Thr Phe Pro Leu Ile Thr Phe Leu Pro Thr Trp Leu
           35           40           45
Ser Tyr Gly *
 50 51
```

&lt;210&gt; 1334

<211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 1334  
 Met Ile Leu Phe Gln Leu Pro Ser Asn Val Phe Val Leu Leu Met Phe  
 1 5 10 15  
 Leu Phe Leu Phe Glu Phe Phe Leu Thr Leu Val Pro Met Trp Ala Phe  
 20 25 30  
 Pro Gly Asp Lys Thr Phe Val Ser Pro Ala Ser Ser Leu Ser Phe Leu  
 35 40 45  
 Asp Leu Ser Phe Leu Leu Phe Cys Asn Ser Val Ser Ile Gly Lys Gln  
 50 55 60 64  
 \*

<210> 1335  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 1335  
 Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val  
 1 5 10 15  
 Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln  
 20 25 30  
 Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser  
 35 40 45  
 Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro  
 50 55 60  
 Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln  
 65 70 75 80  
 Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu  
 85 90 95  
 Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu  
 100 105 110 112

<210> 1336  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1336  
 Met Thr Gly Asn Leu Cys Phe Phe Ser Ile Lys Gly Tyr Leu Leu Thr  
 1 5 10 15  
 Ser Glu Ile Leu Met Ile Tyr Leu Thr Leu Glu Phe Cys Ile Leu Arg  
 20 25 30  
 Gly Lys His Leu Asn Val Ser Phe Lys Ala Gly Asp Thr Phe Ile Leu  
 35 40 45  
 Tyr Leu Gly Ser Leu Gly Phe Glu Glu Glu Gly Gly Pro Glu Ile Leu

```

      50              55              60
Lys Asp Cys Met Gly Gly Leu Ser Ser Pro Pro Leu Trp Lys Ala Glu
 65              70              75              80
Ala Gly Cys Ile Ile Trp Gly Leu Gly Val Trp Asp His Pro Trp Ala
      85              90              95
Thr Thr Arg His Pro Leu Leu Cys *
      100              104

```

<210> 1337  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1337
Met Tyr Val Leu Ser Ser Ala His Leu Cys Phe Leu Cys Leu Gln Cys
 1              5              10              15
Ser Ser Leu Glu Val Tyr Leu Ile Ser Ser Leu Thr Ser Phe Arg Ser
      20              25              30
Val Leu Asn Cys Tyr Pro Pro Glu Arg Ser Ser Leu Thr Ile Gln Tyr
      35              40              45
Gln Ile Leu Leu Leu Leu Leu Gln *
      50              55 56

```

<210> 1338  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1338
Met Arg Ile Ile Ser Leu Thr Leu Met Leu Leu Glu Leu Phe Asp Ser
 1              5              10              15
Glu Asp Pro Arg Gln Arg Glu Tyr Leu Lys Asn Ile Leu His Arg Leu
      20              25              30
Tyr Gly Arg Met Leu Gly Leu Arg Pro Tyr Ile His Lys Gln Ser Lys
      35              40              45
His Ile Phe Leu Arg Met Ile Tyr Glu Phe * -
      50              55 58

```

<210> 1339  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1339
Met Ile Lys Leu Ala Ile Trp Ser Ile Ile Ile Gly Leu Arg Leu Thr
 1              5              10              15
Ile Leu Phe Cys Ile Glu Thr Arg Glu Ser Asp Ile Cys Lys Ile Leu
      20              25              30
Gln Tyr Thr Glu Ser Thr Ile Phe Trp Arg Phe Phe Pro Val Tyr Arg
      35              40              45

```

Tyr \*  
49

<210> 1340  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1340  
Met Pro Leu Ala Cys Thr Gly Leu Asn Thr Gln Arg Phe Ser Tyr Leu  
1 5 10 15  
Arg Asp Leu Phe Leu Pro Trp Gly Leu Cys Ile Leu Tyr Ser Ile Leu  
20 25 30  
Ser Ala Ile Phe Pro Asp Leu Ser Ser Ser Ala Lys Leu Pro Ser Leu  
35 40 45  
His Ile Ala Phe Phe Thr Leu Phe Lys Val Thr Lys Gly Thr Ser Pro  
50 55 60  
Lys Ala Thr Asp Val Pro Val Ala Cys Phe Ile Asn His Asn Arg Thr  
65 70 75 80  
\*

<210> 1341  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 1341  
Met Phe Glu Ile His Arg Ala His Gly Val Phe Leu Leu Leu Ser Ile  
1 5 10 15  
Gln Leu Thr Thr Ser Leu Lys Arg Lys Ser Gly Glu Gly Asp Arg Glu  
20 25 30  
Ser Pro Ala Ser Trp Phe Ser Pro Phe Ser Gln Met Phe Phe Leu Ile  
35 40 45  
Asn Thr Ile Leu Leu Pro Phe Lys Ile Pro Ile \*  
50 55 59

<210> 1342  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1342  
Met Leu Ser Leu Phe Ile Phe Leu Arg Phe Leu Pro Leu Gly Phe Cys  
1 5 10 15  
Trp Lys Glu Leu His Pro Glu Ala Glu Gln Ser Glu Lys Val Asp Phe  
20 25 30  
Arg Lys Pro Trp Tyr Leu Thr Gly His Ala Ala Ser Leu Gly Ala Asp  
35 40 45 48  
\*

<210> 1343  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 1343  
 Met Arg Leu Ala Val Ser Cys Ile Thr Ser Phe Leu Met Leu Ser Leu  
 1 5 10 15  
 Leu Leu Phe Met Ala His Arg Leu Arg Gln Arg Arg Arg Glu Arg Ile  
 20 25 30  
 Glu Ser Leu Ile Gly Ala Asn Leu His His Phe Asn Leu Gly Arg Arg  
 35 40 45  
 Ile Pro Gly Phe Asp Tyr Gly Pro Asp Gly Phe Gly Thr Gly Leu Thr  
 50 55 60  
 Pro Leu Ala Phe Phe \*  
 65 69

<210> 1344  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1344  
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe  
 1 5 10 15  
 Cys Leu Tyr Leu Ser Leu Ala Leu Tyr Leu Gly Ser Phe Phe Cys Leu  
 20 25 30  
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe  
 35 40 45  
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys  
 50 55 60  
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu  
 65 70 75 80  
 Met Gln Lys Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Pro Arg Gly  
 85 90 95  
 Trp Ala \*  
 98

<210> 1345  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 1345  
 Met Lys Val Leu Trp Ala Gly Val Leu Gly Thr Phe Leu Ala Gly Cys  
 1 5 10 15  
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu  
 20 25 30

Cys	Gln	Gln	Thr	Glu	Trp	Lys	Ser	Gly	Gln	Arg	Trp	Glu	Leu	Glu	Leu
	35						40					45			
Gly	Arg	Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Glu	Gln	Thr	Leu	Ser	Glu	Gln
	50					55					60				
Val	Gln	Glu	Glu	Leu	Val	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Lys	Ala
	65				70					75					80
Leu	Met	Asp	Glu	Thr	Met	Lys	Glu	Met	Lys	Ala	Tyr	Lys	Ser	Asp	Leu
				85					90					95	
Glu	Glu	Gln	Leu	Thr	Pro	Val	Ala	Gly	Arg	Arg	Trp	His	Gly	Cys	Thr
			100					105					110		112

<210> 1346  
 <211> 360  
 <212> PRT  
 <213> Homo sapiens

<400> 1346

Met	Leu	Phe	Val	Pro	Val	Thr	Leu	Cys	Met	Ile	Val	Val	Val	Ala	Thr
1				5					10					15	
Ile	Lys	Ser	Val	Arg	Phe	Tyr	Thr	Glu	Lys	Asn	Gly	Gln	Leu	Ile	Tyr
		20						25					30		
Thr	Pro	Phe	Thr	Glu	Asp	Thr	Pro	Ser	Val	Gly	Gln	Arg	Leu	Leu	Asn
		35					40					45			
Ser	Val	Leu	Asn	Thr	Leu	Ile	Met	Ile	Ser	Val	Ile	Val	Val	Met	Thr
	50					55					60				
Ile	Phe	Leu	Val	Val	Leu	Tyr	Lys	Tyr	Arg	Cys	Tyr	Lys	Phe	Ile	His
	65				70				75						80
Gly	Trp	Leu	Ile	Met	Ser	Ser	Leu	Met	Leu	Leu	Phe	Leu	Phe	Thr	Tyr
				85				90						95	
Ile	Tyr	Leu	Gly	Glu	Val	Leu	Lys	Thr	Tyr	Asn	Val	Ala	Met	Asp	Tyr
			100					105					110		
Pro	Thr	Leu	Leu	Leu	Thr	Val	Trp	Asn	Phe	Gly	Ala	Val	Gly	Met	Val
		115					120					125			
Cys	Ile	His	Trp	Lys	Gly	Pro	Leu	Val	Leu	Gln	Gln	Ala	Tyr	Leu	Ile
	130				135					140					
Met	Ile	Ser	Ala	Leu	Met	Ala	Leu	Val	Phe	Ile	Lys	Tyr	Leu	Pro	Glu
	145				150					155					160
Trp	Ser	Ala	Trp	Val	Ile	Leu	Gly	Ala	Ile	Ser	Val	Tyr	Asp	Leu	Val
				165					170					175	
Ala	Val	Leu	Cys	Pro	Lys	Gly	Pro	Leu	Arg	Met	Leu	Val	Glu	Thr	Ala
			180					185					190		
Gln	Glu	Arg	Asn	Glu	Pro	Ile	Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Ala
		195					200					205			
Met	Val	Trp	Thr	Val	Gly	Met	Ala	Lys	Leu	Asp	Pro	Ser	Ser	Gln	Gly
	210					215					220				
Ala	Leu	Gln	Leu	Pro	Tyr	Asp	Pro	Glu	Met	Glu	Glu	Asp	Ser	Tyr	Asp
	225				230					235					240
Ser	Phe	Gly	Glu	Pro	Ser	Tyr	Pro	Glu	Val	Phe	Glu	Pro	Pro	Leu	Thr
				245					250					255	
Gly	Tyr	Pro	Gly	Glu	Glu	Leu	Glu	Glu	Glu	Glu	Arg	Gly	Val	Lys	
			260				265					270			
Leu	Gly	Leu	Gly	Asp	Phe	Ile	Phe	Tyr	Ser	Val	Leu	Val	Gly	Lys	Ala
		275					280					285			
Ala	Ala	Thr	Gly	Ser	Gly	Asp	Trp	Asn	Thr	Thr	Leu	Ala	Cys	Phe	Val

```

      290              295              300
Ala Ile Leu Ile Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Val Phe
305              310              315              320
Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Ile
      325              330              335
Phe Tyr Phe Ser Thr Asp Asn Leu Val Arg Pro Phe Met Asp Thr Leu
      340              345              350
Ala Ser His Gln Leu Tyr Ile *
      355              359

```

```

<210> 1347
<211> 84
<212> PRT
<213> Homo sapiens

```

```

<400> 1347
Met Ile Leu Ser Leu Tyr Tyr Lys Leu Phe Gly Lys Leu Ala Val Ala
 1              5              10              15
Thr Ile Glu Ile Leu His Cys Leu Cys Tyr Ile Glu Phe Val Ile Ile
      20              25              30
Phe Lys Gly Phe Lys Lys Ile Pro Ile Cys Phe Phe Ser Phe Leu Phe
      35              40              45
Ser Phe Val Pro His His Leu Asn Tyr Leu Gly Lys Tyr His Ser Ser
      50              55              60
Lys Phe Glu Tyr Cys Leu Ser Asn Lys Lys Lys Cys Glu Arg Tyr Glu
      65              70              75              80
Glu Glu Arg *
      83

```

```

<210> 1348
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1348
Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
 1              5              10              15
Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Gly
      20              25              30
Tyr Ile Ile Ala Phe Phe Val Leu Tyr Thr Asn Arg Met Tyr Ser Ile
      35              40              45
Ile Asn Ile Ile Leu Asn Leu Phe Tyr Pro Val Tyr Tyr Cys Lys Ile
      50              55              60              64
*
```

```

<210> 1349
<211> 58
<212> PRT
<213> Homo sapiens

```

&lt;400&gt; 1349

```

Met Pro Ser Pro Ser Gly Leu Trp Arg Ile Leu Leu Leu Val Leu Gly
 1           5           10           15
Ser Val Leu Ser Gly Ser Ala Arg Ala Ala Ala Pro Leu Arg Val Leu
           20           25           30
Arg Gln Thr Ala Leu Cys Cys Ala Thr Glu Ala Leu Val Ala Val Pro
      35           40           45
Glu Gly Ile Pro Thr Glu Thr Arg Leu *
    50           55           57

```

&lt;210&gt; 1350

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(60)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1350

```

Met Gly Ile Gly Cys Trp Arg Asn Pro Leu Val Leu Leu Met Ala Leu
 1           5           10           15
Ala Cys Gln Ala Ser Trp Gly Leu Ser Lys Gly Gly Arg Val Leu Pro
           20           25           30
Asn Leu Cys Pro Lys Lys Met Phe Xaa Thr Leu Phe Phe Phe Asn Ser
      35           40           45
Gln Arg Gly Arg Gly Pro Pro Phe Trp Ala Gly Gly
    50           55           60

```

&lt;210&gt; 1351

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1351

```

Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro Met Leu Cys
 1           5           10           15
Thr Cys Tyr Ser Ser Pro Pro Thr Val Ser Cys Gln Ala Asn Asn Phe
           20           25           30
Ser Ser Val Pro Leu Ser Leu Pro Pro Ser Thr Gln Arg Leu Phe Leu
      35           40           45
Gln Asn Asn Leu Ile Arg Thr Leu
    50           55           56

```

&lt;210&gt; 1352

&lt;211&gt; 701

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<400> 1352

Met	Glu	Pro	Leu	Cys	Pro	Leu	Leu	Leu	Val	Gly	Phe	Ser	Leu	Pro	Leu
1				5					10					15	
Ala	Arg	Ala	Leu	Arg	Gly	Asn	Glu	Thr	Thr	Ala	Asp	Ser	Asn	Glu	Thr
			20					25					30		
Thr	Thr	Thr	Ser	Gly	Pro	Pro	Asp	Pro	Gly	Ala	Ser	Gln	Pro	Leu	Leu
		35					40					45			
Ala	Trp	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Leu	Val	Leu	Leu	Leu
50						55					60				
Ala	Ala	Tyr	Phe	Phe	Arg	Phe	Arg	Lys	Gln	Arg	Lys	Ala	Val	Val	Ser
65					70					75					80
Thr	Ser	Asp	Lys	Lys	Met	Pro	Asn	Gly	Ile	Leu	Glu	Glu	Gln	Glu	Gln
				85					90					95	
Gln	Arg	Val	Met	Leu	Leu	Ser	Arg	Ser	Pro	Ser	Gly	Pro	Lys	Lys	Tyr
			100					105					110		
Phe	Pro	Ile	Pro	Val	Glu	His	Leu	Glu	Glu	Glu	Ile	Arg	Ile	Arg	Ser
		115					120					125			
Ala	Asp	Asp	Cys	Lys	Gln	Phe	Arg	Glu	Glu	Phe	Asn	Ser	Leu	Pro	Ser
130						135					140				
Gly	His	Ile	Gln	Gly	Thr	Phe	Glu	Leu	Ala	Asn	Lys	Glu	Glu	Asn	Arg
145						150				155					160
Glu	Lys	Asn	Arg	Tyr	Pro	Asn	Ile	Leu	Pro	Asn	Asp	His	Ser	Arg	Val
				165				170					175		
Ile	Leu	Ser	Gln	Leu	Asp	Gly	Ile	Pro	Cys	Ser	Asp	Tyr	Ile	Asn	Ala
			180					185					190		
Ser	Tyr	Ile	Asp	Gly	Tyr	Lys	Glu	Lys	Asn	Lys	Phe	Ile	Ala	Ala	Gln
		195					200					205			
Gly	Pro	Lys	Gln	Glu	Thr	Val	Asn	Asp	Phe	Trp	Arg	Met	Val	Trp	Glu
210						215					220				
Gln	Lys	Ser	Ala	Thr	Ile	Val	Met	Leu	Thr	Asn	Leu	Lys	Glu	Arg	Lys
225						230				235					240
Glu	Glu	Lys	Cys	His	Gln	Tyr	Trp	Pro	Asp	Gln	Gly	Cys	Trp	Thr	Tyr
				245					250					255	
Gly	Asn	Ile	Arg	Val	Cys	Val	Glu	Asp	Cys	Val	Val	Leu	Val	Asp	Tyr
			260				265					270			
Thr	Ile	Arg	Lys	Phe	Cys	Ile	Gln	Pro	Gln	Leu	Pro	Asp	Gly	Cys	Lys
		275					280					285			
Ala	Pro	Arg	Leu	Val	Ser	Gln	Leu	His	Phe	Thr	Ser	Trp	Pro	Asp	Phe
290						295					300				
Gly	Val	Pro	Phe	Thr	Pro	Ile	Gly	Met	Leu	Lys	Phe	Leu	Lys	Lys	Val
305						310				315					320
Lys	Thr	Leu	Asn	Pro	Val	His	Ala	Gly	Pro	Ile	Val	Val	His	Cys	Ser
				325					330					335	
Ala	Gly	Val	Gly	Arg	Thr	Gly	Thr	Phe	Ile	Val	Ile	Asp	Ala	Met	Met
			340					345					350		
Ala	Met	Met	His	Ala	Glu	Gln	Lys	Val	Asp	Val	Phe	Glu	Phe	Val	Ser
		355					360					365			
Arg	Ile	Arg	Asn	Gln	Arg	Pro	Gln	Met	Val	Gln	Thr	Asp	Met	Gln	Tyr
370						375						380			
Thr	Phe	Ile	Tyr	Gln	Ala	Leu	Leu	Glu	Tyr	Tyr	Leu	Tyr	Gly	Asp	Thr
385					390					395					400
Glu	Leu	Asp	Val	Ser	Ser	Leu	Glu	Lys	His	Leu	Gln	Thr	Met	His	Gly
				405					410					415	
Thr	Thr	Thr	His	Phe	Asp	Lys	Ile	Gly	Leu	Glu	Glu	Glu	Phe	Arg	Lys
			420					425					430		
Leu	Thr	Asn	Val	Arg	Ile	Met	Lys	Glu	Asn	Met	Arg	Thr	Gly	Asn	Leu
		435					440					445			
Pro	Ala	Asn	Met	Lys	Lys	Ala	Arg	Val	Ile	Gln	Ile	Ile	Pro	Tyr	Asp
450						455						460			

```

Phe Asn Arg Val Ile Leu Ser Met Lys Arg Gly Gln Glu Tyr Thr Asp
465                               470                               475                               480
Tyr Ile Asn Ala Ser Phe Ile Asp Gly Tyr Arg Gln Lys Asp Tyr Phe
                               485                               490                               495
Ile Ala Thr Gln Gly Pro Leu Ala His Thr Val Glu Asp Phe Trp Arg
                               500                               505                               510
Met Ile Trp Glu Trp Lys Ser His Thr Ile Val Met Leu Thr Glu Val
                               515                               520                               525
Gln Glu Arg Glu Gln Asp Lys Cys Tyr Gln Tyr Trp Pro Thr Glu Gly
530                               535                               540
Ser Val Thr His Gly Glu Ile Thr Ile Glu Ile Lys Asn Asp Thr Leu
545                               550                               555                               560
Ser Glu Ala Ile Ser Ile Arg Asp Phe Leu Val Thr Leu Asn Gln Pro
                               565                               570                               575
Gln Ala Arg Gln Glu Glu Gln Val Arg Val Val Arg Gln Phe His Phe
                               580                               585                               590
His Gly Trp Pro Glu Ile Gly Ile Pro Ala Glu Gly Lys Gly Met Ile
595                               600                               605
Asp Leu Ile Ala Ala Val Gln Lys Gln Gln Gln Thr Gly Asn His
610                               615                               620
Pro Ile Thr Val His Cys Ser Ala Gly Ala Gly Arg Thr Gly Thr Phe
625                               630                               635                               640
Ile Ala Leu Ser Asn Ile Leu Glu Arg Val Lys Ala Glu Gly Leu Leu
                               645                               650                               655
Asp Val Phe Gln Ala Val Lys Ser Leu Arg Leu Gln Arg Pro His Met
                               660                               665                               670
Val Gln Thr Leu Glu Gln Tyr Glu Phe Cys Tyr Lys Val Val Gln Asp
675                               680                               685
Phe Ile Asp Ile Phe Ser Asp Tyr Ala Asn Phe Lys *
690                               695                               700

```

```

<210> 1353
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1353
Met Ala Phe Leu Tyr His Val Ala Tyr Val Leu Val Cys Met Leu Gly
 1                               5                               10                               15
Leu Phe Cys His Glu Phe Phe Tyr Ser Phe Leu Leu Phe Glu Ser Val
                               20                               25                               30
Tyr Arg His Gln Thr Leu Leu Asn Asp Ile Pro Cys Val Lys Leu Met
                               35                               40                               45                               48
*
```

```

<210> 1354
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1354
Met Ser Val Cys Lys Tyr Thr Val Tyr Gly Phe Phe Ile Phe Ala Phe

```

1				5					10					15
Phe	Tyr	Phe	Thr	Lys	Asp	Asn	Ile	Pro	Tyr	Leu	Lys	Val	Ser	Leu
			20					25					30	
Ala	Phe	Cys	Gly	Phe	Gln	Asn	Ile	Ser	Trp	Asn	Lys	Tyr	Thr	Leu
		35					40					45		
Phe	Tyr	Tyr	Ser	Pro	Leu	Thr	Ile	Ile	*					
	50					55		57						

<210> 1355  
 <211> 4261  
 <212> PRT  
 <213> Homo sapiens

<400> 1355

Met	Leu	Ser	Ala	Ile	Leu	Leu	Leu	Leu	Gln	Leu	Trp	Asp	Ser	Gly	Ala
1				5					10					15	
Gln	Glu	Thr	Asp	Asn	Glu	Arg	Ser	Ala	Gln	Gly	Thr	Ser	Ala	Pro	Leu
			20					25					30		
Leu	Pro	Leu	Leu	Gln	Arg	Phe	Gln	Ser	Ile	Ile	Cys	Arg	Lys	Asp	Ala
		35					40					45			
Pro	His	Ser	Glu	Gly	Asp	Met	His	Leu	Leu	Ser	Gly	Pro	Leu	Ser	Pro
	50					55					60				
Asn	Glu	Ser	Phe	Leu	Arg	Tyr	Leu	Thr	Leu	Pro	Gln	Asp	Asn	Glu	Leu
	65				70					75				80	
Ala	Ile	Asp	Leu	Arg	Gln	Thr	Ala	Val	Val	Val	Met	Ala	His	Leu	Asp
			85					90						95	
Arg	Leu	Ala	Thr	Pro	Cys	Met	Pro	Pro	Leu	Cys	Ser	Ser	Pro	Thr	Ser
		100					105						110		
His	Lys	Gly	Ser	Leu	Gln	Glu	Val	Ile	Gly	Trp	Gly	Leu	Ile	Gly	Trp
	115						120					125			
Lys	Tyr	Tyr	Ala	Asn	Val	Ile	Gly	Pro	Ile	Gln	Cys	Glu	Gly	Leu	Ala
	130					135					140				
Asn	Leu	Gly	Val	Thr	Gln	Ile	Ala	Cys	Ala	Glu	Lys	Arg	Phe	Leu	Ile
	145				150					155				160	
Leu	Ser	Arg	Asn	Gly	Arg	Val	Tyr	Thr	Gln	Ala	Tyr	Asn	Ser	Asp	Thr
			165						170					175	
Leu	Ala	Pro	Gln	Leu	Val	Gln	Gly	Leu	Ala	Ser	Arg	Asn	Ile	Val	Lys
		180					185						190		
Ile	Ala	Ala	His	Ser	Asp	Gly	His	His	Tyr	Leu	Ala	Leu	Ala	Ala	Thr
	195						200					205			
Gly	Glu	Val	Tyr	Ser	Trp	Gly	Cys	Gly	Asp	Gly	Gly	Arg	Leu	Gly	His
	210					215					220				
Gly	Asp	Thr	Val	Pro	Leu	Glu	Glu	Pro	Lys	Val	Ile	Ser	Ala	Phe	Ser
	225				230					235				240	
Gly	Lys	Gln	Ala	Gly	Lys	His	Val	Val	His	Ile	Ala	Cys	Gly	Ser	Thr
			245						250					255	
Tyr	Ser	Ala	Ala	Ile	Thr	Ala	Glu	Gly	Glu	Leu	Tyr	Thr	Trp	Gly	Arg
		260					265						270		
Gly	Asn	Tyr	Gly	Arg	Leu	Gly	His	Gly	Ser	Ser	Glu	Asp	Glu	Ala	Ile
	275						280					285			
Pro	Met	Leu	Val	Ala	Gly	Leu	Lys	Gly	Leu	Lys	Val	Ile	Asp	Val	Ala
	290					295					300				
Cys	Gly	Ser	Gly	Asp	Ala	Gln	Thr	Leu	Ala	Val	Thr	Glu	Asn	Gly	Gln
	305				310					315				320	
Val	Trp	Ser	Trp	Gly	Asp	Gly	Asp	Tyr	Gly	Lys	Leu	Gly	Arg	Gly	Gly
				325					330					335	

Ser Asp Gly Cys Lys Thr Pro Lys Leu Ile Glu Lys Leu Gln Asp Leu  
 340 345 350  
 Asp Val Val Lys Val Arg Cys Gly Ser Gln Phe Ser Ile Ala Leu Thr  
 355 360 365  
 Lys Asp Gly Gln Val Tyr Ser Trp Gly Lys Gly Asp Asn Gln Arg Leu  
 370 375 380  
 Gly His Gly Thr Glu Glu His Val Arg Tyr Pro Lys Leu Leu Glu Gly  
 385 390 395 400  
 Leu Gln Gly Lys Lys Val Ile Asp Val Ala Gly Ser Thr His Cys  
 405 410 415  
 Leu Ala Leu Thr Glu Asp Ser Glu Val His Ser Trp Gly Ser Asn Asp  
 420 425 430  
 Gln Cys Gln His Phe Asp Thr Leu Arg Val Thr Lys Pro Glu Pro Ala  
 435 440 445  
 Ala Leu Pro Gly Leu Asp Thr Lys His Ile Val Gly Ile Ala Cys Gly  
 450 455 460  
 Pro Ala Gln Ser Phe Ala Trp Ser Ser Cys Ser Glu Trp Ser Ile Gly  
 465 470 475 480  
 Leu Arg Val Pro Phe Val Val Asp Ile Cys Ser Met Thr Phe Glu Gln  
 485 490 495  
 Leu Asp Leu Leu Leu Arg Gln Val Ser Glu Gly Met Asp Gly Ser Ala  
 500 505 510  
 Asp Trp Pro Pro Pro Gln Glu Lys Glu Cys Val Ala Val Ala Thr Leu  
 515 520 525  
 Asn Leu Leu Arg Leu Gln Leu His Ala Ala Ile Ser His Gln Val Asp  
 530 535 540  
 Pro Glu Phe Leu Gly Leu Gly Leu Gly Ser Ile Leu Leu Asn Ser Leu  
 545 550 555 560  
 Lys Gln Thr Val Val Thr Leu Ala Ser Ser Ala Gly Val Leu Ser Thr  
 565 570 575  
 Val Gln Ser Ala Ala Gln Ala Val Leu Gln Ser Gly Trp Ser Val Leu  
 580 585 590  
 Leu Pro Thr Ala Glu Glu Arg Ala Arg Ala Leu Ser Ala Leu Leu Pro  
 595 600 605  
 Cys Ala Val Ser Gly Asn Glu Val Asn Ile Ser Pro Gly Arg Arg Phe  
 610 615 620  
 Met Ile Asp Leu Leu Val Gly Ser Leu Met Ala Asp Gly Gly Leu Glu  
 625 630 635 640  
 Ser Ala Leu His Ala Ala Ile Thr Ala Glu Ile Gln Asp Ile Glu Ala  
 645 650 655  
 Lys Lys Glu Ala Gln Lys Glu Lys Glu Ile Asp Glu Gln Glu Ala Asn  
 660 665 670  
 Ala Ser Thr Phe His Arg Ser Arg Thr Pro Leu Asp Lys Asp Leu Ile  
 675 680 685  
 Asn Thr Gly Ile Cys Glu Ser Ser Gly Lys Gln Cys Leu Pro Leu Val  
 690 695 700  
 Gln Leu Ile Gln Gln Leu Leu Arg Asn Ile Ala Ser Gln Thr Val Ala  
 705 710 715 720  
 Arg Leu Lys Asp Val Ala Arg Arg Ile Ser Ser Cys Leu Asp Phe Glu  
 725 730 735  
 Gln His Ser Arg Glu Arg Ser Ala Ser Leu Asp Trp Leu Leu Arg Phe  
 740 745 750  
 Gln Arg Leu Leu Ile Ser Lys Leu Tyr Pro Gly Glu Ser Ile Gly Gln  
 755 760 765  
 Thr Ser Asp Ile Ser Ser Pro Glu Leu Met Gly Val Gly Ser Leu Leu  
 770 775 780  
 Lys Lys Tyr Thr Ala Leu Leu Cys Thr His Ile Gly Asp Ile Leu Pro  
 785 790 795 800  
 Val Ala Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val

771

772

1745                      1750                      1755                      1760  
 Ser Leu Gln Arg Gln Ile Leu Ala Val His Leu Leu Gln Ala Val Leu  
                                  1765                      1770                      1775  
 Pro Ser Trp Asp Lys Thr Glu Arg Ala Arg Asp Met Lys Cys Leu Val  
                                  1780                      1785                      1790  
 Glu Lys Leu Phe Asp Phe Leu Gly Ser Leu Leu Thr Thr Cys Ser Ser  
                                  1795                      1800                      1805  
 Asp Val Pro Leu Leu Arg Glu Ser Thr Leu Arg Arg Arg Arg Val Arg  
                                  1810                      1815                      1820  
 Pro Gln Ala Ser Leu Thr Ala Thr His Ser Ser Thr Leu Ala Glu Glu  
 1825                      1830                      1835                      1840  
 Val Val Ala Leu Leu Arg Thr Leu His Ser Leu Thr Gln Trp Asn Gly  
                                  1845                      1850                      1855  
 Leu Ile Asn Lys Tyr Ile Asn Ser Gln Leu Arg Ser Ile Thr His Ser  
                                  1860                      1865                      1870  
 Phe Val Gly Arg Pro Ser Glu Gly Ala Gln Leu Glu Asp Tyr Phe Pro  
                                  1875                      1880                      1885  
 Asp Ser Glu Asn Pro Glu Val Gly Gly Leu Met Ala Val Leu Ala Val  
                                  1890                      1895                      1900  
 Ile Gly Gly Ile Asp Gly Arg Leu Arg Leu Gly Gly Gln Val Met His  
 1905                      1910                      1915                      1920  
 Asp Glu Phe Gly Glu Gly Thr Val Thr Arg Ile Thr Pro Lys Gly Lys  
                                  1925                      1930                      1935  
 Ile Thr Val Gln Phe Ser Asp Met Arg Thr Cys Arg Val Cys Pro Leu  
                                  1940                      1945                      1950  
 Asn Gln Leu Lys Pro Leu Pro Ala Val Ala Phe Asn Val Asn Asn Leu  
                                  1955                      1960                      1965  
 Pro Phe Thr Glu Pro Met Leu Ser Val Trp Ala Gln Leu Val Asn Leu  
                                  1970                      1975                      1980  
 Ala Gly Ser Lys Leu Glu Lys His Lys Ile Lys Lys Ser Thr Lys Gln  
 1985                      1990                      1995                      2000  
 Ala Phe Ala Gly Gln Val Asp Leu Asp Leu Leu Arg Cys Gln Gln Leu  
                                  2005                      2010                      2015  
 Lys Leu Tyr Ile Leu Lys Ala Gly Arg Ala Leu Leu Ser His Gln Asp  
                                  2020                      2025                      2030  
 Lys Leu Arg Gln Ile Leu Ser Gln Pro Ala Val Gln Glu Thr Gly Thr  
                                  2035                      2040                      2045  
 Val His Thr Asp Asp Gly Ala Val Val Ser Pro Asp Leu Gly Asp Met  
                                  2050                      2055                      2060  
 Ser Pro Glu Gly Pro Gln Pro Pro Met Ile Leu Leu Gln Gln Leu Leu  
 2065                      2070                      2075                      2080  
 Ala Ser Ala Thr Gln Pro Ser Pro Val Lys Ala Ile Phe Asp Lys Gln  
                                  2085                      2090                      2095  
 Glu Leu Glu Ala Ala Ala Leu Ala Val Cys Gln Cys Leu Ala Val Glu  
                                  2100                      2105                      2110  
 Ser Thr His Pro Ser Ser Pro Gly Phe Glu Asp Cys Ser Ser Ser Glu  
                                  2115                      2120                      2125  
 Ala Thr Thr Pro Val Ala Val Gln His Ile His Pro Ala Arg Val Lys  
                                  2130                      2135                      2140  
 Arg Arg Lys Gln Ser Pro Val Pro Ala Leu Pro Ile Val Val Gln Leu  
 2145                      2150                      2155                      2160  
 Met Glu Met Gly Phe Ser Arg Arg Asn Ile Glu Phe Ala Leu Lys Ser  
                                  2165                      2170                      2175  
 Leu Thr Gly Ala Ser Gly Asn Ala Ser Ser Leu Pro Gly Val Glu Ala  
                                  2180                      2185                      2190  
 Leu Val Gly Trp Leu Leu Asp His Ser Asp Ile Gln Val Thr Glu Leu  
                                  2195                      2200                      2205  
 Ser Asp Ala Asp Thr Val Ser Asp Glu Tyr Ser Asp Glu Glu Val Val  
                                  2210                      2215                      2220

Glu Asp Val Asp Asp Ala Ala Tyr Ser Met Ser Thr Gly Ala Val Val  
 2225 2230 2235 2240  
 Thr Glu Ser Gln Thr Tyr Lys Lys Arg Ala Asp Phe Leu Ser Asn Asp  
 2245 2250 2255  
 Asp Tyr Ala Val Tyr Val Arg Glu Asn Ile Gln Val Gly Met Met Val  
 2260 2265 2270  
 Arg Cys Cys Arg Ala Tyr Glu Glu Val Cys Glu Gly Asp Val Gly Lys  
 2275 2280 2285  
 Val Ile Lys Leu Asp Arg Asp Gly Leu His Asp Leu Asn Val Gln Cys  
 2290 2295 2300  
 Asp Trp Gln Gln Lys Gly Gly Thr Tyr Trp Val Arg Tyr Ile His Val  
 2305 2310 2315 2320  
 Glu Leu Ile Gly Tyr Pro Pro Pro Ser Ser Ser Ser His Ile Lys Ile  
 2325 2330 2335  
 Gly Asp Lys Val Arg Val Lys Ala Ser Val Thr Thr Pro Lys Tyr Lys  
 2340 2345 2350  
 Trp Gly Ser Val Thr His Gln Ser Val Gly Val Val Lys Ala Phe Ser  
 2355 2360 2365  
 Ala Asn Gly Lys Asp Ile Ile Val Asp Phe Pro Gln Gln Ser His Trp  
 2370 2375 2380  
 Thr Gly Leu Leu Ser Glu Met Glu Leu Val Pro Ser Ile His Pro Gly  
 2385 2390 2395 2400  
 Val Thr Cys Asp Gly Cys Gln Met Phe Pro Ile Asn Gly Ser Arg Phe  
 2405 2410 2415  
 Lys Cys Arg Asn Cys Asp Asp Phe Asp Phe Cys Glu Thr Cys Phe Lys  
 2420 2425 2430  
 Thr Lys Lys His Asn Thr Arg His Thr Phe Gly Arg Ile Asn Glu Pro  
 2435 2440 2445  
 Gly Gln Ser Ala Val Phe Cys Gly Arg Ser Gly Lys Gln Leu Lys Arg  
 2450 2455 2460  
 Cys His Ser Ser Gln Pro Gly Met Leu Leu Asp Ser Trp Ser Arg Met  
 2465 2470 2475 2480  
 Val Lys Ser Leu Asn Val Ser Ser Ser Val Asn Gln Ala Ser Arg Leu  
 2485 2490 2495  
 Ile Asp Gly Ser Glu Pro Cys Trp Gln Ser Ser Gly Ser Gln Gly Lys  
 2500 2505 2510  
 His Trp Ile Arg Leu Glu Ile Phe Pro Asp Val Leu Val His Arg Leu  
 2515 2520 2525  
 Lys Met Ile Val Asp Pro Ala Asp Ser Ser Tyr Met Pro Ser Leu Val  
 2530 2535 2540  
 Val Val Ser Gly Gly Asn Ser Leu Asn Asn Leu Ile Glu Leu Lys Thr  
 2545 2550 2555 2560  
 Ile Asn Ile Asn Pro Ser Asp Thr Thr Val Pro Leu Leu Asn Asp Tyr  
 2565 2570 2575  
 Thr Glu Tyr His Arg Tyr Ile Glu Ile Ala Ile Lys Gln Cys Arg Ser  
 2580 2585 2590  
 Ser Gly Ile Asp Cys Lys Ile His Gly Leu Ile Leu Leu Gly Arg Ile  
 2595 2600 2605  
 Arg Ala Glu Glu Glu Asp Leu Ala Ala Val Pro Phe Leu Ala Ser Asp  
 2610 2615 2620  
 Asn Glu Glu Glu Glu Asp Glu Lys Gly Asn Ser Gly Ser Leu Ile Arg  
 2625 2630 2635 2640  
 Lys Lys Ala Ala Gly Leu Glu Ser Ala Ala Thr Ile Arg Thr Lys Val  
 2645 2650 2655  
 Phe Val Trp Gly Leu Asn Asp Lys Asp Gln Leu Gly Gly Leu Lys Gly  
 2660 2665 2670  
 Ser Lys Ile Lys Val Pro Ser Phe Ser Glu Thr Leu Ser Ala Leu Asn  
 2675 2680 2685  
 Val Val Gln Val Ala Gly Gly Ser Lys Ser Leu Phe Ala Val Thr Val



2690                      2695                      2700  
 Glu Gly Lys Val Tyr Ala Cys Gly Glu Ala Thr Asn Gly Arg Leu Gly  
 2705                      2710                      2715                      2720  
 Leu Gly Ile Ser Ser Gly Thr Val Pro Ile Pro Arg Gln Ile Thr Ala  
                     2725                      2730                      2735  
 Leu Ser Ser Tyr Val Val Lys Lys Val Ala Val His Ser Gly Gly Arg  
                     2740                      2745                      2750  
 His Ala Thr Ala Leu Thr Val Asp Gly Lys Val Phe Ser Trp Gly Glu  
                     2755                      2760                      2765  
 Gly Asp Asp Gly Lys Leu Gly His Phe Ser Arg Met Asn Cys Asp Lys  
 2770                      2775                      2780  
 Pro Arg Leu Ile Glu Ala Leu Lys Thr Lys Arg Ile Arg Asp Ile Ala  
 2785                      2790                      2795                      2800  
 Cys Gly Ser Ser His Ser Ala Ala Leu Thr Ser Ser Gly Glu Leu Tyr  
                     2805                      2810                      2815  
 Thr Trp Gly Leu Gly Glu Tyr Gly Arg Leu Gly His Gly Asp Asn Thr  
                     2820                      2825                      2830  
 Thr Gln Leu Lys Pro Lys Met Val Lys Val Leu Leu Gly His Arg Val  
                     2835                      2840                      2845  
 Ile Gln Val Ala Cys Gly Ser Arg Asp Ala Gln Thr Leu Ala Leu Thr  
 2850                      2855                      2860  
 Asp Glu Gly Leu Val Phe Ser Trp Gly Asp Gly Asp Phe Gly Lys Leu  
 2865                      2870                      2875                      2880  
 Gly Arg Gly Gly Ser Glu Gly Cys Asn Ile Pro Gln Asn Ile Glu Arg  
                     2885                      2890                      2895  
 Leu Asn Gly Gln Gly Val Cys Gln Ile Glu Cys Gly Ala Gln Phe Ser  
                     2900                      2905                      2910  
 Leu Ala Leu Thr Lys Ser Gly Val Val Trp Thr Trp Gly Lys Gly Asp  
                     2915                      2920                      2925  
 Tyr Phe Arg Leu Gly His Gly Ser Asp Val His Val Arg Lys Pro Gln  
 2930                      2935                      2940  
 Val Val Glu Gly Leu Arg Gly Lys Lys Ile Val His Val Ala Val Gly  
 2945                      2950                      2955                      2960  
 Ala Leu His Cys Leu Ala Val Thr Asp Ser Gly Gln Val Tyr Ala Trp  
                     2965                      2970                      2975  
 Gly Asp Asn Asp His Gly Gln Gln Gly Asn Gly Thr Thr Thr Val Asn  
                     2980                      2985                      2990  
 Arg Lys Pro Thr Leu Val Gln Gly Leu Glu Gly Gln Lys Ile Thr Arg  
                     2995                      3000                      3005  
 Val Ala Cys Gly Ser Ser His Ser Val Ala Trp Thr Thr Val Asp Val  
 3010                      3015                      3020  
 Ala Thr Pro Ser Val His Glu Pro Val Leu Phe Gln Thr Ala Arg Asp  
 3025                      3030                      3035                      3040  
 Pro Leu Gly Ala Ser Tyr Leu Gly Val Pro Ser Asp Ala Asp Ser Ser  
                     3045                      3050                      3055  
 Ala Ala Ser Asn Lys Ile Ser Gly Ala Ser Asn Ser Lys Pro Asn Arg  
                     3060                      3065                      3070  
 Pro Ser Leu Ala Lys Ile Leu Leu Ser Leu Asp Gly Asn Leu Ala Lys  
                     3075                      3080                      3085  
 Gln Gln Ala Leu Ser His Ile Leu Thr Ala Leu Gln Ile Met Tyr Ala  
 3090                      3095                      3100  
 Arg Asp Ala Val Val Gly Ala Leu Met Pro Ala Ala Met Ile Ala Pro  
 3105                      3110                      3115                      3120  
 Val Glu Cys Pro Ser Phe Ser Ser Ala Ala Pro Ser Asp Ala Ser Ala  
                     3125                      3130                      3135  
 Met Ala Ser Pro Met Asn Gly Glu Glu Cys Met Leu Ala Val Asp Ile  
                     3140                      3145                      3150  
 Glu Asp Arg Leu Ser Pro Asn Pro Trp Gln Glu Lys Arg Glu Ile Val  
                     3155                      3160                      3165

Ser Ser Glu Asp Ala Val Thr Pro Ser Ala Val Thr Pro Ser Ala Pro  
 3170 3175 3180  
 Ser Ala Ser Ala Arg Pro Phe Ile Pro Val Thr Asp Asp Leu Gly Ala  
 3185 3190 3195 3200  
 Ala Ser Ile Ile Ala Glu Thr Met Thr Lys Thr Lys Glu Asp Val Glu  
 3205 3210 3215  
 Ser Gln Asn Lys Ala Ala Gly Pro Glu Pro Gln Ala Leu Asp Glu Phe  
 3220 3225 3230  
 Thr Ser Leu Leu Ile Ala Asp Asp Thr Arg Val Val Val Asp Leu Leu  
 3235 3240 3245  
 Lys Leu Ser Val Cys Ser Arg Ala Gly Asp Arg Gly Arg Asp Val Leu  
 3250 3255 3260  
 Ser Ala Val Leu Ser Gly Met Gly Thr Ala Tyr Pro Gln Val Ala Asp  
 3265 3270 3275 3280  
 Met Leu Leu Glu Leu Cys Val Thr Glu Leu Glu Asp Val Ala Thr Asp  
 3285 3290 3295  
 Ser Gln Ser Gly Arg Leu Ser Ser Gln Pro Val Val Val Glu Ser Ser  
 3300 3305 3310  
 His Pro Tyr Thr Asp Asp Thr Ser Thr Ser Gly Thr Val Lys Ile Pro  
 3315 3320 3325  
 Gly Ala Glu Gly Leu Arg Val Glu Phe Asp Arg Gln Cys Ser Thr Glu  
 3330 3335 3340  
 Arg Arg His Asp Pro Leu Thr Val Met Asp Gly Val Asn Arg Ile Val  
 3345 3350 3355 3360  
 Ser Val Arg Ser Gly Arg Glu Trp Ser Asp Trp Ser Ser Glu Leu Arg  
 3365 3370 3375  
 Ile Pro Gly Asp Glu Leu Lys Trp Lys Phe Ile Ser Asp Gly Ser Val  
 3380 3385 3390  
 Asn Gly Trp Gly Trp Arg Phe Thr Val Tyr Pro Ile Met Pro Ala Ala  
 3395 3400 3405  
 Gly Pro Lys Glu Leu Leu Ser Asp Arg Cys Val Leu Ser Cys Pro Ser  
 3410 3415 3420  
 Met Asp Leu Val Thr Cys Leu Leu Asp Phe Arg Leu Asn Leu Ala Ser  
 3425 3430 3435 3440  
 Asn Arg Ser Ile Val Pro Arg Leu Ala Ala Ser Leu Ala Ala Cys Ala  
 3445 3450 3455  
 Gln Leu Ser Ala Leu Ala Ala Ser His Arg Met Trp Ala Leu Gln Arg  
 3460 3465 3470  
 Leu Arg Lys Leu Leu Thr Thr Glu Phe Gly Gln Ser Ile Asn Ile Asn  
 3475 3480 3485  
 Arg Leu Leu Gly Glu Asn Asp Gly Glu Thr Arg Ala Leu Ser Phe Thr  
 3490 3495 3500  
 Gly Ser Ala Leu Ala Ala Leu Val Lys Gly Leu Pro Glu Ala Leu Gln  
 3505 3510 3515 3520  
 Arg Gln Phe Glu Tyr Glu Asp Pro Ile Val Arg Gly Gly Lys Gln Leu  
 3525 3530 3535  
 Leu His Ser Pro Phe Phe Lys Val Leu Val Ala Leu Ala Cys Asp Leu  
 3540 3545 3550  
 Glu Leu Asp Thr Leu Pro Cys Cys Ala Glu Thr His Lys Trp Ala Trp  
 3555 3560 3565  
 Phe Arg Arg Tyr Cys Met Ala Ser Arg Val Ala Val Ala Leu Asp Lys  
 3570 3575 3580  
 Arg Thr Pro Leu Pro Arg Leu Phe Leu Asp Glu Val Ala Lys Lys Ile  
 3585 3590 3595 3600  
 Arg Glu Leu Met Ala Asp Ser Glu Asn Met Asp Val Leu His Glu Ser  
 3605 3610 3615  
 His Asp Ile Phe Lys Arg Glu Gln Asp Glu Gln Leu Val Gln Trp Met  
 3620 3625 3630  
 Asn Arg Arg Pro Asp Asp Trp Thr Leu Ser Ala Gly Gly Ser Gly Thr

```

      3635      3640      3645
Ile Tyr Gly Trp Gly His Asn His Arg Gly Gln Leu Gly Gly Ile Glu
  3650      3655      3660
Gly Ala Lys Val Lys Val Pro Thr Pro Cys Glu Ala Leu Ala Thr Leu
3665      3670      3675      3680
Arg Pro Val Gln Leu Ile Gly Gly Glu Gln Thr Leu Phe Ala Val Thr
      3685      3690      3695
Ala Asp Gly Lys Leu Tyr Ala Thr Gly Tyr Gly Ala Gly Gly Arg Leu
      3700      3705      3710
Gly Ile Gly Gly Thr Glu Ser Val Ser Thr Pro Thr Leu Leu Glu Ser
      3715      3720      3725
Ile Gln His Val Phe Ile Lys Lys Val Ala Val Asn Ser Gly Gly Lys
      3730      3735      3740
His Cys Leu Ala Leu Ser Ser Glu Gly Glu Val Tyr Ser Trp Gly Glu
3745      3750      3755      3760
Ala Glu Asp Gly Lys Leu Gly His Gly Asn Arg Ser Pro Cys Asp Arg
      3765      3770      3775
Pro Arg Val Ile Glu Ser Leu Arg Gly Ile Glu Val Val Asp Val Ala
      3780      3785      3790
Ala Gly Gly Ala His Ser Ala Cys Val Thr Ala Ala Gly Asp Leu Tyr
      3795      3800      3805
Thr Trp Gly Lys Gly Arg Tyr Gly Arg Leu Gly His Ser Asp Ser Glu
      3810      3815      3820
Asp Gln Leu Lys Pro Lys Leu Val Glu Ala Leu Gln Gly His Arg Val
3825      3830      3835      3840
Val Asp Ile Ala Cys Gly Ser Gly Asp Ala Gln Thr Leu Cys Leu Thr
      3845      3850      3855
Asp Asp Asp Thr Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu
      3860      3865      3870
Gly Arg Gly Gly Ser Asp Gly Cys Lys Val Pro Met Lys Ile Asp Ser
      3875      3880      3885
Leu Thr Gly Leu Gly Val Val Lys Val Glu Cys Gly Ser Gln Phe Ser
      3890      3895      3900
Val Ala Leu Thr Lys Ser Gly Ala Val Tyr Thr Trp Gly Lys Gly Asp
3905      3910      3915      3920
Tyr His Arg Leu Gly His Gly Ser Asp Asp His Val Arg Arg Pro Arg
      3925      3930      3935
Gln Val Gln Gly Leu Gln Gly Lys Lys Val Ile Ala Ile Ala Thr Gly
      3940      3945      3950
Ser Leu His Cys Val Cys Cys Thr Glu Asp Gly Glu Val Tyr Thr Trp
      3955      3960      3965
Gly Asp Asn Asp Glu Gly Gln Leu Gly Asp Gly Thr Thr Asn Ala Ile
      3970      3975      3980
Gln Arg Pro Arg Leu Val Ala Ala Leu Gln Gly Lys Lys Val Asn Arg
3985      3990      3995      4000
Val Ala Cys Gly Ser Ala His Thr Leu Ala Trp Ser Thr Ser Lys Pro
      4005      4010      4015
Ala Ser Ala Gly Lys Leu Pro Ala Gln Val Pro Met Glu Tyr Asn His
      4020      4025      4030
Leu Gln Glu Ile Pro Ile Ile Ala Leu Arg Asn Arg Leu Leu Leu Leu
      4035      4040      4045
His His Leu Ser Glu Leu Phe Cys Pro Cys Ile Pro Met Phe Asp Leu
      4050      4055      4060
Glu Gly Ser Leu Asp Glu Thr Gly Leu Gly Pro Ser Val Gly Phe Asp
4065      4070      4075      4080
Thr Leu Arg Gly Ile Leu Ile Ser Gln Gly Lys Glu Ala Ala Phe Arg
      4085      4090      4095
Lys Val Val Gln Ala Thr Met Val Arg Asp Arg Gln His Gly Pro Val
      4100      4105      4110

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```

Val Glu Leu Asn Arg Ile Gln Val Lys Arg Ser Arg Ser Lys Gly Gly
    4115                4120                4125
Leu Ala Gly Pro Asp Gly Thr Lys Ser Val Phe Gly Gln Met Cys Ala
    4130                4135                4140
Lys Met Ser Ser Phe Gly Pro Asp Ser Leu Leu Leu Pro His Arg Val
4145                4150                4155                4160
Trp Lys Val Lys Phe Val Gly Glu Ser Val Asp Asp Cys Gly Gly Gly
    4165                4170                4175
Tyr Ser Glu Ser Ile Ala Glu Ile Cys Glu Glu Leu Gln Asn Gly Leu
    4180                4185                4190
Thr Pro Leu Leu Ile Val Thr Pro Asn Gly Arg Asp Glu Ser Gly Ala
    4195                4200                4205
Asn Arg Asp Cys Tyr Leu Leu Ser Pro Ala Ala Arg Ala Pro Val His
    4210                4215                4220
Ser Ser Met Phe Arg Phe Leu Gly Val Leu Leu Gly Ile Ala Ile Arg
4225                4230                4235                4240
Thr Gly Ser Pro Leu Ser Leu Asn Pro Cys Arg Ala Leu Ser Gly Ser
    4245                4250                4255
Ser Trp Leu Gly *
    4260

```

```

<210> 1356
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1356
Met Ser Lys Val Lys Pro Leu His Gly Ala Pro Ala Pro Leu Leu Val
 1          5          10          15
Ser Leu Cys Leu Leu Ser Trp Cys Gly Leu Pro Gly Val Ile Val His
    20          25          30
Val Thr Tyr Val Ser Pro Arg His Leu Ser Asn Thr Arg Ser Gly Leu
    35          40          45
Glu Ser Ile His Gly Cys Asp Pro Met His Gly Ser Pro Val Gly *
 50          55          60          63

```

```

<210> 1357
<211> 111
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(111)
<223> Xaa = any amino acid or nothing

```

```

<400> 1357
Met Ile Phe Asn Lys Ala Ala Asp Thr Leu Gly Asp Val Trp Ile Leu
 1          5          10          15
Leu Ala Thr Leu Lys Val Leu Ser Leu Leu Trp Leu Leu Tyr Tyr Val
    20          25          30
Ala Ser Thr Thr Arg Gln Pro His Ala Val Leu Tyr Gln Asp Pro His
    35          40          45
Ala Gly Pro Leu Trp Val Arg Ser Ser Leu Val Leu Phe Gly Ser Cys

```

```

      50              55              60
Thr Phe Cys Leu Asn Ile Phe Arg Val Gly Tyr Asp Val Ser His Ile
 65              70              75              80
Arg Cys Lys Ser Gln Leu Asp Leu Val Phe Pro Val Ile Glu Met Val
      85              90              95
Phe Ile Gly Val Gln Thr Cys Val Leu Trp Lys His Cys Arg Xaa
      100              105              110 111

```

<210> 1358  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1358
Met Ala Leu Leu Ile Ser Thr Cys Ile Asn Lys Ala Val Leu Arg Phe
  1              5              10              15
Thr Leu Ser Ser Met Asn Asn Lys Ile Ile Leu Ser Trp Tyr Ser Phe
      20              25              30
Asn Val Ile Leu Ile Phe His Glu Asn Val Val Tyr Tyr Ile *
      35              40              45 46

```

<210> 1359  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1359
Met Phe Ser Pro Cys Gly Pro Ala Ser Leu Gly Leu Leu Phe Val Leu
  1              5              10              15
Cys Thr His Ser Gln Ala Leu Ala Phe Phe Trp Gly Pro Ser Ser Leu
      20              25              30
Ile Gly Ala Ser Gly Phe Leu Leu Gln Arg Thr Ser Leu Leu Arg His
      35              40              45
Val Phe Leu Gly Leu Val Tyr Ala Cys Trp Ala His Trp Leu Tyr Cys
      50              55              60
Ser Ser Arg Pro Val Thr Lys Glu *
      65              70              72

```

<210> 1360  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

```

      <400> 1360
Met Lys Thr Gly Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
  1              5              10              15
Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
      20              25              30
Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val
      35              40              45

```

Phe Phe Phe Ala Phe Phe Arg Thr \*  
 50 55 56

<210> 1361  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1361  
 Met Phe Val Leu Phe Leu Ile Leu Val Leu Arg Asn His Phe Leu Val  
 1 5 10 15  
 Thr Ile Lys Tyr Gly Val Gly Cys Gly Phe Ile Ile Ser Val Cys Leu  
 20 25 30  
 Arg Ala Lys His Phe Asn Phe Asp Glu Ala Gln Phe Val Ser Phe Phe  
 35 40 45  
 Leu Cys Asp Ser Cys Phe Cys Leu Leu Arg Asn Leu Pro Thr Gln Arg  
 50 55 60  
 Leu Gln Arg Phe Phe Phe Cys Trp Phe Phe Leu Ile \*  
 65 70 75 76

<210> 1362  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 1362  
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met  
 1 5 10 15  
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser  
 20 25 30  
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Leu Pro  
 35 40 45  
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg  
 50 55 60  
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His  
 65 70 75 80  
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Ala Ala Leu  
 85 90 95  
 Leu Lys Ile Met Cys Lys Gln Leu Leu \*  
 100 105

<210> 1363  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1363  
 Met Ala Trp Lys Pro Leu Gly Arg Gln Ala Val Leu Arg Glu Thr Pro  
 1 5 10 15  
 Leu Ala Thr Leu Cys Ile Asp Arg Arg Gln Val Ser Ser Ser Leu Val

```

          20          25          30
Gln Glu Gly Phe His Ser Lys Ser Cys His Cys Leu Gly Asp Ser Phe
          35          40          45
Arg Glu Lys Asn Gln Val Val Gly *
          50          55 56

```

```

<210> 1364
<211> 75
<212> PRT
<213> Homo sapiens

```

```

<400> 1364
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1          5          10          15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
          20          25          30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
          35          40          45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
          50          55          60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
 65          70          74

```

```

<210> 1365
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1365
Met Lys Leu Gln Val Phe Ala Val Asn Ile Thr Ala Leu Lys Ala Ala
 1          5          10          15
Arg Leu Glu Leu Phe Val Leu Pro Gly Gly Phe Ile Val Phe Leu Ala
          20          25          30
Ser Glu Leu Lys Leu Gln Thr Ser Leu Glu Ser Val Ala Pro His Lys
          35          40          45
Asp Ser Met Ser Leu Lys Ser Glu His *
          50          55          57

```

```

<210> 1366
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1366
Met His Cys Ser Phe Ile Ser Ala Phe Leu Leu Pro Val Phe Leu Ser
 1          5          10          15
Leu Thr Val Ser Ala Ser Ile Phe Val Ser Leu His Ser Phe Pro Leu
          20          25          30
Ser Leu Ser Tyr Phe Ser Phe Leu Gly Ser Phe Phe Leu Ser Val Cys
          35          40          45

```

Leu Asp Leu Tyr Ser Ser Leu Phe Phe \*  
 50 55 57

<210> 1367  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1367  
 Met Met Gly Arg Ile Phe Ala Ala Leu Ser Leu Ile Lys Leu Met Met  
 1 5 10 15  
 Tyr Ser Leu Phe Pro Val Ile Glu Ser Ser Leu Cys His Leu Glu Val  
 20 25 30  
 Trp Ala Trp Arg His Ile Trp Pro Thr Ala Gly Arg Gly Val Pro \*  
 35 40 45 47

<210> 1368  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1368  
 Met Gly Arg Arg Lys Ser Phe Phe Phe Leu Phe Leu Glu Cys Arg Gln  
 1 5 10 15  
 Lys Gly Leu His Ile Pro Leu Cys Thr Cys Ser His Ala Pro Arg Pro  
 20 25 30  
 Pro Leu Ala Ala Pro Ser Ala Leu Ile Leu Pro Pro Glu Ile Ser His  
 35 40 45  
 Thr Ser Arg Gly Ile Leu Leu Ser His Gly Leu Phe Pro Thr Ala Thr  
 50 55 60  
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Thr Val Thr  
 65 70 75 80  
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Ser Thr \*  
 85 90 95

<210> 1369  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1369  
 Met Trp Asp His Phe Ile Leu Ser Arg Val Leu Phe Cys Leu Phe Val  
 1 5 10 15  
 Phe His Ser Arg Val Leu Lys Asp His Met Ala Ser Asn Ala Tyr Lys  
 20 25 30  
 Ser Ala Leu Phe Phe Thr Val Arg Tyr Leu Glu Thr Lys Gln Phe Leu  
 35 40 45  
 Leu Arg Cys Cys Cys Trp Pro Asp Ala Val Ala His Ala Cys Asn Thr  
 50 55 60  
 Ser Thr Leu Arg Gly Gln Gly Arg His Ile Thr \*



65

70

75

<210> 1370  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1370  
 Met Cys Ser Cys Leu His Thr Leu Gln Arg Arg Phe Leu His Phe Val  
 1 5 10 15  
 Ser Ile Ala Leu Ser Lys Ile Trp Gln Asn Asn Ala Phe His Leu Gln  
 20 25 30  
 Val Glu Val Ser Trp Leu Ser Thr Phe Val Asp Lys Val Ile Val Met  
 35 40 45  
 Arg Leu Ile Ser Ser Lys His Phe Thr Asp Thr Met Asn Asp Arg Val  
 50 55 60  
 His Ser Phe Leu Asn Asp Ile Gly Phe Val Cys Leu Leu Ser \*  
 65 70 75 78

<210> 1371  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<221> misc\_feature  
 <222> (1)...(227)  
 <223> Xaa = any amino acid or nothing

<400> 1371  
 Met Leu Tyr Phe Gln Leu Val Ile Met Ala Gly Thr Val Leu Leu Ala  
 1 5 10 15  
 Tyr Tyr Phe Glu Cys Thr Asp Thr Phe Gln Val His Ile Gln Gly Phe  
 20 25 30  
 Phe Cys Gln Asp Gly Asp Leu Met Lys Pro Tyr Pro Gly Thr Glu Glu  
 35 40 45  
 Glu Ser Phe Ile Thr Pro Leu Val Leu Tyr Cys Val Leu Ala Ala Thr  
 50 55 60  
 Pro Thr Ala Ile Ile Phe Ile Gly Glu Ile Ser Met Tyr Phe Ile Lys  
 65 70 75 80  
 Ser Thr Arg Glu Ser Leu Ile Ala Gln Glu Lys Thr Ile Leu Thr Gly  
 85 90 95  
 Glu Cys Cys Tyr Leu Asn Pro Leu Leu Arg Arg Ile Ile Arg Phe Thr  
 100 105 110  
 Gly Val Phe Ala Phe Gly Leu Phe Ala Thr Asp Ile Phe Val Asn Ala  
 115 120 125  
 Gly Gln Val Val Thr Gly His Leu Thr Pro Tyr Phe Leu Thr Val Cys  
 130 135 140  
 Lys Pro Asn Tyr Thr Ser Ala Asp Cys Gln Ala His His Gln Phe Ile  
 145 150 155 160  
 Asn Asn Gly Asn Ile Cys Thr Gly Asp Leu Gly Ser Asp Arg Lys Gly  
 165 170 175  
 Ser Glu Ile Leu Ser Leu Gln Thr Arg Cys Ser Glu His Leu Leu Arg  
 180 185 190

Leu Ile Trp Pro Arg Cys Ile Phe Thr Arg His Asn Gln Gly Arg Gly  
           195                          200                          205  
 Gly Ser Ser Met Gly Pro Ser Arg Trp Leu Cys Leu Gly Thr Phe Leu  
           210                          215                          220  
 His Xaa Leu  
 225          227

<210> 1372  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1372  
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe  
       1                          5                          10                          15  
 Cys Leu Tyr Leu Ser Leu Ser Leu Tyr Leu Arg Ser Phe Phe Cys Leu  
           20                          25                          30  
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe  
           35                          40                          45  
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys  
           50                          55                          60  
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu  
           65                          70                          75                          80  
 Ile Gln Met Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Gln Arg Gly  
                           85                          90                          95  
 Trp Ala \*  
       98

<210> 1373  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1373  
 Met Leu His Thr Pro Gln Thr Cys Arg Pro Gly Leu Cys Val Leu Ala  
       1                          5                          10                          15  
 Ser Arg Pro Val Leu Tyr Thr Leu Cys Leu Leu Ile Pro Val Leu Cys  
           20                          25                          30  
 Gly Asp Thr Phe Trp Ala Ser Trp Ser Leu Leu Thr Lys Ala Thr Pro  
           35                          40                          45  
 Ser Ser Leu Leu Cys Leu Ser Asp Lys Ser Ile Pro Ser Leu Ile Ser  
           50                          55                          60  
 Lys Gly Asp Ser \*  
       65                          68

<210> 1374  
 <211> 296  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1374

```

Met Arg Ser Lys Ile Met Ile His Ile His Ile Phe Leu Leu Ala Ser
 1           5           10           15
Phe Arg Phe Lys Glu His Val Gln Asn Leu Pro Arg Asp Leu Leu
           20           25           30
Thr Gly Glu Gln Phe Ile Gln Leu Arg Arg Glu Leu Ala Ser Val Asn
           35           40           45
Gly His Ser Gly Asp Asp Gly Pro Pro Gly Asp Asp Leu Pro Ser Gly
           50           55           60
Ile Glu Asp Ile Thr Asp Pro Ala Lys Leu Ile Thr Glu Ile Glu Asn
           65           70           75           80
Met Arg His Arg Ile Ile Glu Ile His Gln Glu Met Phe Asn Tyr Asn
           85           90           95
Glu His Glu Val Ser Lys Arg Trp Thr Phe Glu Glu Gly Ile Lys Arg
           100          105          110
Pro Tyr Phe His Val Lys Pro Leu Glu Lys Ala Gln Leu Lys Asn Trp
           115          120          125
Lys Glu Tyr Leu Glu Phe Glu Ile Glu Asn Gly Thr His Glu Arg Val
           130          135          140
Val Val Leu Phe Glu Arg Cys Val Ile Ser Cys Ala Leu Tyr Glu Glu
           145          150          155          160
Phe Trp Ile Lys Tyr Ala Lys Tyr Met Glu Asn His Ser Ile Glu Gly
           165          170          175
Val Arg His Val Phe Ser Arg Ala Cys Thr Ile His Leu Pro Lys Lys
           180          185          190
Pro Met Val His Met Leu Trp Ala Ala Phe Glu Glu Gln Gln Gly Asn
           195          200          205
Ile Asn Glu Ala Arg Asn Ile Leu Lys Thr Phe Glu Glu Cys Val Leu
           210          215          220
Gly Leu Ala Met Val Arg Leu Arg Arg Val Ser Leu Glu Arg Arg His
           225          230          235          240
Gly Asn Leu Glu Glu Ala Glu His Leu Leu Gln Asp Ala Ile Lys Asn
           245          250          255
Ala Lys Ser Asn Glu Ser Ser Phe Tyr Ala Val Lys Leu Ala Arg
           260          265          270
His Leu Phe Lys Ile Gln Lys Asn Leu Pro Lys Ser Arg Lys Val Leu
           275          280          285
Leu Glu Ala Ile Glu Arg Asp Lys
           290          295 296

```

&lt;210&gt; 1375

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1375

```

Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1           5           10           15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
           20           25           30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
           35           40           45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
           50           55           60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
           65           70           74

```

<210> 1376  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1376  
 Met Cys Tyr Glu Trp Val Ile Thr Thr Val Gly Ser Trp Ala Leu Leu  
 1 5 10 15  
 Cys Gln Arg Thr Leu Trp Lys Pro His Arg Thr Tyr Gln Lys Leu Thr  
 20 25 30  
 Leu Asn Ser Cys Pro Thr Pro Ile Val Glu Gly Gly Leu Glu Ser Phe  
 35 40 45  
 Pro Ser Pro Asn Phe Pro Ser Cys Ile Ser Trp Ser \*  
 50 55 60

<210> 1377  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1377  
 Met Trp Val Trp Val Thr Ala Ala His Leu Leu Cys Ser Leu Ala Ala  
 1 5 10 15  
 Ser Phe Val Lys Lys Lys Ser Leu Gly Lys Leu Arg Val Asp Val Cys  
 20 25 30  
 Arg Ser Pro Pro Glu Gly Ser Arg Thr Gln Thr Ser Ser Ser Leu  
 35 40 45  
 Phe Tyr Arg Gly Gly Asn Gly Ala Ser Tyr Ala Asn Tyr Ile Leu His  
 50 55 60  
 His Thr Met Ala Leu Glu Gly Gln Arg Ser His Trp Ala Pro Cys Val  
 65 70 75 80  
 Ser Cys Pro Ala Gln Gly Leu Ala Leu Arg Gly Cys Thr Thr Phe  
 85 90 95  
 Leu His Lys Asn Lys Gly Gly Thr Glu Ala Val Thr Val \*  
 100 105 109

<210> 1378  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1378  
 Met Phe Ala Leu Gln Lys Met Arg Leu Cys Val Leu Trp Arg Val Leu  
 1 5 10 15  
 Glu Glu Gly Gly Ile Thr Arg Phe Gly Asp Ser His Ser Asp Ser Leu  
 20 25 30  
 Leu Phe Ser Val Thr Phe Arg Ile His Arg Asp Met Phe Cys \*  
 35 40 45 46

<210> 1379  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 1379  
 Met Arg His Pro Ser Pro Trp Pro Phe Leu Phe Phe Cys Phe Val Pro  
 1 5 10 15  
 Ala Thr Leu Arg Ser Phe Pro Ser Gly Leu Val Trp Pro Gly Cys Trp  
 20 25 30  
 Trp Glu Pro Arg Ala Ser Pro Ser Ser Leu Ala Pro Gly Met Lys Ser  
 35 40 45  
 Gln Leu Trp Ala Ala Ala Trp Arg Pro Gly Thr Ser Leu Gln Gly Met  
 50 55 60  
 Ala Gly Ile Leu Arg Gln Ala Ala Glu Ala Gly Pro Ala Gly Val Ala  
 65 70 75 80  
 Leu Ile Leu Ile Lys Gly Thr Gly Asn Glu Glu Pro Leu Gly Pro Leu  
 85 90 95  
 Pro Ser Arg Cys Leu Cys Pro Pro Pro Glu Glu Pro Arg Phe His Trp  
 100 105 110  
 Ala Leu Gly Lys Glu Pro Thr Gly Pro Gly Arg Pro Gln Pro Val Gln  
 115 120 125  
 His His Ile Glu Gly Pro His Pro Val Gly Phe Gly  
 130 135 140

<210> 1380  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1380  
 Met Gln Glu Pro Leu Thr Phe Leu Gln Leu Leu Arg Trp Gln Leu Phe  
 1 5 10 15  
 Pro Leu Pro Asp Ser Pro Thr Phe Ser Ala Phe Ile Leu Val Gly Leu  
 20 25 30  
 Cys Arg Met Leu Phe Ala Gly Arg Ile Ile Ser Gly Leu Thr Arg Val  
 35 40 45  
 Ile \*  
 49

<210> 1381  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 1381  
 Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met  
 1 5 10 15  
 Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr  
 20 25 30

```

Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
      35              40              45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
      50              55              60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
      65              70              75              77

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<210> 1382
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1382
Met Leu Thr Thr Leu Leu Leu Leu Leu His Lys Arg Ile Phe Arg Gly
  1              5              10              15
Asn Phe His Ile Leu His Phe His Ile Cys Ile Gln Ile Lys Lys Gln
      20              25              30
Ile Pro Ile Leu Glu Asn Asp Leu Phe Lys Met Tyr Thr Val Ser Asn
      35              40              45
Lys Ala Lys Thr Arg Thr Trp Ser *
      50              55 56

```

```

<210> 1383
<211> 64
<212> PRT
<213> Homo sapiens

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```

<400> 1383
Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
  1              5              10              15
Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
      20              25              30
Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
      35              40              45
Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
      50              55              60              63

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<210> 1384
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1384
Met Leu Ser Phe Val Pro Leu Leu Ser Ser Trp Leu Gly Thr Trp Ile
  1              5              10              15
Thr Asp Arg Gly Ala Ala Gly Ser Cys Gln Ala Glu Ala Pro Arg Leu
      20              25              30
Ala Gly Glu Thr Ala Gly Gln Arg Val Trp Glu Arg Gly Met Gln Arg
      35              40              45
Ala Ala Ala Val Gly Lys Ile Leu Asp Pro Lys Gly His Thr Ala Ser

```

50 55 60  
 Pro His \*  
 65 66

<210> 1385  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1385  
 Met Leu Val Leu Phe Val Ala Thr Trp Ser Asp Leu Gly Leu Cys Lys  
 1 5 10 15  
 Lys Arg Pro Lys Pro Gly Gly Trp Asn Thr Gly Gly Cys Arg Tyr Pro  
 20 25 30  
 Gly Leu Ala Cys Pro Leu Gly Arg Pro Pro Gly Gln Trp Gly Ala Thr  
 35 40 45  
 Val \*  
 49

<210> 1386  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 1386  
 Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala  
 1 5 10 15  
 Tyr Ser Arg Gly Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val  
 20 25 30  
 Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu Leu  
 35 40 45  
 Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn  
 50 55 60  
 Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu  
 65 70 75 80  
 Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro  
 85 90 95  
 Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val  
 100 105 110  
 Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe  
 115 120 123

<210> 1387  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 1387  
 Met Pro Arg Leu Phe Ser Pro Leu Ile Leu Leu His Thr Leu Ser Leu  
 1 5 10 15

Lys Ser His Glu Thr Phe Gln Trp Ser Gln Phe Leu Tyr Gln Asn Thr  
                   20                  25                  30  
 Arg Asp Ala Cys Phe Thr Trp Thr Tyr Ile Phe Pro Arg Ile Thr Trp  
                   35                  40                  45  
 Ile Asn Glu Trp Cys Cys Phe Pro Val Val Gly Glu Lys Leu Gly Thr  
           50                  55                  60                  64  
 \*

<210> 1388  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1388  
 Met Gly Leu Leu Asn Lys Tyr Ala Ser Val Ile Ile Tyr Leu Tyr Phe  
   1                  5                  10                  15  
 Ser Leu Val Lys Ser Glu Ser Leu Phe His Leu Met Tyr Leu Pro Ser  
                   20                  25                  30  
 Leu Phe Ile Gln Phe Phe Leu Gly Ile Phe Ser Leu Lys Thr His Cys  
                   35                  40                  45  
 Cys Thr Ser Lys Phe Asp Ser \*  
           50                  55

<210> 1389  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1389  
 Met Arg Arg Arg Ala Leu Lys His Trp Val Ala Leu Cys Leu Thr Trp  
   1                  5                  10                  15  
 Thr Ala Gly Glu Ser Thr Gly Pro Trp Pro Ser Pro Glu Pro Ser Val  
                   20                  25                  30  
 Arg Ala Lys Glu Ala Asp Pro Ser Gly Arg Arg Ser Leu Gly Ser Pro  
                   35                  40                  45  
 Gly Leu Glu Cys Gly Pro Arg Leu Thr Arg Gly Ser Gly Arg Gln Cys  
           50                  55                  60  
 Asp Gly Pro Arg Gly Ile Cys His Ala Leu Gly \*  
   65                  70                  75

<210> 1390  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 1390  
 Met Ala Ala Ser Pro Ala Arg Pro Ala Val Leu Ala Leu Thr Gly Leu  
   1                  5                  10                  15  
 Ala Leu Leu Leu Leu Leu Cys Trp Gly Pro Gly Gly Ile Ser Gly Asn



```

      20      25      30
Lys Leu Lys Leu Met Leu Gln Lys Arg Glu Ala Pro Val Pro Thr Lys
      35      40      45
Thr Lys Val Ala Val Asp Glu Asn Lys Ala Lys Glu Phe Leu Gly Ser
      50      55      60
Leu Lys Arg Gln Lys Arg Gln Leu Trp Asp Arg Thr Arg Pro Glu Val
      65      70      75      80
Gln Gln Trp Tyr Gln Gln Phe Leu Tyr Met Gly Phe Asp Glu Ala Lys
      85      90      95
Phe Glu Asp Asp Ile Thr Tyr Trp Leu Asn Arg Asp Arg Asn Gly His
      100      105      110
Glu Tyr Tyr Gly Asp Tyr Tyr Gln Arg His Tyr Asp Glu Asp Ser Ala
      115      120      125
Ile Gly Pro Arg Ser Pro Tyr Gly Phe Arg His Gly Ala Ser Val Asn
      130      135      140
Tyr Asp Asp Tyr *
145      148

```

```

<210> 1391
<211> 125
<212> PRT
<213> Homo sapiens

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```

<400> 1391
Met Val Met Gly Trp His Trp Pro Gln Gly Leu Gly Leu Ser Leu Ser
  1      5      10      15
Leu Cys Pro Ser Asp Leu Asp Gly Trp Val Ser Arg Glu Val Pro Leu
      20      25      30
Leu Asp Arg Pro Gln Ala Leu Pro Pro Cys Val Gln Ile Leu Ser Ala
      35      40      45
Pro Ala Ser Thr Ser Cys Pro Ser Ala Leu Ser Pro Trp His Asp Pro
      50      55      60
Gly Leu Pro Val Thr Ser Gln Asn His Phe Ala Trp Phe Pro Leu Gly
      65      70      75      80
Ser Lys Ala Cys Leu Gly Pro Ser Ile Asp Arg Glu Ala Val Lys Glu
      85      90      95
Ile Asn Ala Glu Gly Val Arg Arg Gln Thr Gln Gly Pro Ile Lys
      100      105      110
Val Arg Lys Gln Ala Gly Cys Gly Gly Ser Cys Leu *
      115      120      124

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```

<210> 1392
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1392
Met Ile Ile Gln Ile Cys Thr Ile Ser Arg Ile Glu Phe Ile Cys Leu
  1      5      10      15
Cys Val Cys Val Phe Phe Arg Val Ile Trp Leu Pro Val Glu Phe Tyr
      20      25      30
Leu Glu Thr Lys Ile Leu Lys Val Val Phe Val Ile Val Phe Val Pro
      35      40      45

```

Ile Ile Leu Pro Leu His Pro \*  
 50 55

<210> 1393  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1393  
 Met Glu Ala Trp Lys Ala Leu Ile Gly Leu Phe Pro Leu Arg Ser Ser  
 1 5 10 15  
 Ala Ser Pro Phe Thr Tyr His Cys Trp Glu Pro Ala Gln Pro Ala His  
 20 25 30  
 Gln Glu Phe His Ser Thr Ile Ala Leu Arg Gly Arg Gly Gly Lys Pro  
 35 40 45  
 Gln Glu Glu Ser Ser Pro \*  
 50 54

<210> 1394  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1394  
 Met Ser Leu Asn Pro Glu Phe Leu Trp Leu Lys Trp Phe Ser Leu Leu  
 1 5 10 15  
 Leu Arg Gly Arg Arg Asn Ser Cys Leu Ile Ala Leu Lys Gly Tyr His  
 20 25 30  
 Ser Val Met Ile Phe His Leu Pro Leu Ile Pro Ser Ser Val Thr Ser  
 35 40 45  
 Cys His \*  
 50

<210> 1395  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1395  
 Met Pro Cys Phe Met Pro Asn Pro Gly Ala Val Leu Gly Leu Pro Pro  
 1 5 10 15  
 Trp Leu Leu Ser Thr Gln Arg Leu Thr His Thr Arg Ala Tyr Leu Asn  
 20 25 30  
 Trp Leu Ala Ser Asp Arg Trp Met Arg Arg His Trp Arg Thr Gly Glu  
 35 40 45  
 Ser Gln Val Glu Arg Ser Ser Arg Pro Trp Trp Glu Thr Gln His Leu  
 50 55 60  
 Ser Pro Ala Ser Leu Gly Arg Arg Pro Ala Pro Gly Leu Gln Glu His  
 65 70 75 80  
 Phe Leu Asp Thr Asp Gly Lys Val Ala Asp Ser Gly Leu Gln Met Gly

85 90 95  
 Phe Gly Leu Leu Ser Leu Pro Ser Ile  
 100 105

<210> 1396  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1396  
 Met Leu Cys Asn Leu Ala Leu Lys Leu Leu Asn Cys Val Ser Ala Trp  
 1 5 10 15  
 Asn Met Asn Ile Arg Leu Lys Cys Leu Leu Lys Pro Lys Asn Val Ser  
 20 25 30  
 Lys Val Cys Ser Arg Gly Leu Tyr Phe Ile Tyr Val Met Asp Ser Leu  
 35 40 45 48  
 \*

<210> 1397  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1397  
 Met Leu Ser Trp Val Phe Pro Gly Ser Val Phe Gly Leu Cys Leu Ser  
 1 5 10 15  
 Val Trp Val Phe Trp His Gln Ala Ser Leu Gly Arg Ala Ser Gly Cys  
 20 25 30  
 Ala Pro Ala Leu Arg Val Gly Leu Ile Pro Gly Cys Arg Gly Leu Arg  
 35 40 45  
 Ala Glu Leu Phe His Leu Glu Asp Lys Asp Gly Ser Ser Gly Leu Gly  
 50 55 60  
 Gly Gly Gly Gly Ala Gly His Asp Leu Ile Leu Arg Arg Ala Trp Cys  
 65 70 75 80  
 Trp Gly Leu Thr Asp Asp Gly Glu Ala Arg Val Gln Ala Leu Gly Met  
 85 90 95  
 Thr Pro Gly Ile Ala Phe Ser \*  
 100 103

<210> 1398  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 1398  
 Met Lys Pro Val Trp Val Ala Thr Leu Leu Trp Met Leu Leu Leu Val  
 1 5 10 15  
 Pro Arg Leu Gly Ala Ala Arg Lys Gly Ser Pro Glu Glu Ala Ser Phe  
 20 25 30

Tyr Tyr Gly Thr Phe Pro Leu Gly Gly His His Ser Ala Glu Gly Thr  
           35                  40                  45  
 Ala Arg Gln Pro Leu Pro Ile Leu Pro Val Leu Ala Pro Ala Pro Ala  
       50                  55                  60  
 His Arg His Pro Ser Arg Ala Gly Glu Gln Glu Gly Asn Arg Ile Leu  
   65                  70                  75                  80  
 Gln \*  
   81

<210> 1399  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1399  
 Met Gly Ala Val Leu Leu Val Cys Leu Gln Thr Ser Ile Ala Ala Arg  
   1                  5                  10                  15  
 Asp Asp Leu Lys Asp Ala Val Asp Ser Gly Leu Leu Leu Ala Asn Ser  
           20                  25                  30  
 Leu Ser His Phe Val Pro Leu Val Val Arg Asn Tyr Leu Val His Cys  
           35                  40                  45  
 Asn Leu Leu Gln Thr Leu Lys Phe Leu Leu Gly Asn Cys Thr Ala Gly  
   50                  55                  60  
 Lys Ala Ser \*  
   65          67

<210> 1400  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1400  
 Met Ala Val Ala Phe Val Leu Ser Leu Gly Val Ala Ala Leu Tyr Lys  
   1                  5                  10                  15  
 Phe Arg Val Ala Asp Gln Arg Lys Lys Ala Tyr Ala Asp Phe Tyr Arg  
           20                  25                  30  
 Asn Tyr Asp Val Met Lys Asp Phe Glu Glu Met Arg Lys Ala Gly Ile  
           35                  40                  45  
 Phe Gln Ser Val Lys \*  
   50                  53

<210> 1401  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 1401  
 Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu Pro Thr Trp Trp  
   1                  5                  10                  15  
 Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu Phe Val Tyr Leu

```

      20      25      30
Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys Leu Gln Val Thr
      35      40      45
Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala Thr Asn Ser Arg
      50      55      60
Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu Ile Gln Glu Thr
      65      70      75      80
Glu Val Ile Ser Arg Gly Phe Thr Leu Leu Leu Asp Arg Val Ser Ala
      85      90      95
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
      100      105      110
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Ser Phe Gln Ala
      115      120      125
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
      130      135      140
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
      145      150      155      160
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
      165      170      175
Lys Leu Tyr Arg Trp Leu Gln Pro Ala Cys Ile Glu Gly Phe Val Pro
      180      185      190
Thr Leu Gly Gly Thr Glu Phe Arg Val Leu Gln Thr Val Ser Pro Ile
      195      200      205
Thr Phe Tyr Ser Gln Phe Thr Ser Trp Ala Leu Thr Tyr Ser Ser Thr
      210      215      220
Ser Ala Ser Ser Tyr Leu Ile *
      225      230 231

```

```

<210> 1402
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1402
Met Ala Pro Ala Arg Pro Trp Trp Leu Thr Pro Val Ile Pro Ala Leu
  1      5      10      15
Trp Glu Ala Glu Asp Gly Ser Arg Gly Gln Glu Phe Lys Thr Ser
      20      25      30
Leu Ala Ser Met Val Lys Pro Arg Leu Tyr Tyr Lys Tyr Lys Asn *
      35      40      45      47

```

```

<210> 1403
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1403
Met Leu Trp Arg Leu Ile Ile Ile Leu Cys Glu Ala Leu Gln Arg Lys
  1      5      10      15
Ser Arg Leu Leu Ala Asp Cys Asp His Phe Ser Phe Pro Asn Arg Tyr
      20      25      30
Glu Arg Lys Leu Leu Leu Asp Phe Thr Val Arg Ile Trp Ile Gln Thr
      35      40      45

```

Tyr Cys Pro His \*  
50 52

<210> 1404  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 1404  
Met Arg Val Phe Cys Val Gly Leu Leu Leu Phe Ser Val Thr Trp Ala  
1 5 10 15  
Ala Pro Thr Phe Gln Pro Gln Thr Glu Lys Thr Lys Gln Ser Cys Val  
20 25 30  
Glu Glu Gln Arg Gln Glu Glu Lys Asn Lys Asp Asn Ile Gly Phe His  
35 40 45  
His Leu Gly Lys Arg Ile Asn Gln Glu Leu Ser Ser Lys Glu Asn Ile  
50 55 60  
Val Gln Glu Arg Lys Lys Asp Leu Ser Leu Ser Glu Ala Ser Glu Asn  
65 70 75 80  
Lys Gly Ser Ser Lys Ser Gln Asn Tyr Phe  
85 90

<210> 1405  
<211> 477  
<212> PRT  
<213> Homo sapiens

<400> 1405  
Met Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu  
1 5 10 15  
Ala Ala Cys Gly Trp Leu Leu Gly Ala Glu Ala Gln Glu Pro Gly Ala  
20 25 30  
Pro Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly  
35 40 45  
Ile Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val  
50 55 60  
Ser Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly  
65 70 75 80  
Arg Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn  
85 90 95  
Pro Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn  
100 105 110  
Met His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala  
115 120 125  
Gln Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn  
130 135 140  
Leu Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp  
145 150 155 160  
Gly Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe  
165 170 175  
Val Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro  
180 185 190  
Asp Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn

```

      195      200      205
Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys
  210      215      220
Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro
  225      230      235      240
Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr
      245      250      255
Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser
      260      265      270
Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe
      275      280      285
Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp
  290      295      300
Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr
  305      310      315      320
Ser Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys
      325      330      335
Phe Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu
      340      345      350
Thr Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr
      355      360      365
Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln
  370      375      380
Gly Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His
  385      390      395      400
Asp Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro
      405      410      415
Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr
      420      425      430
Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu
      435      440      445
Leu Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met
  450      455      460
Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe *
  465      470      475 476

```

```

<210> 1406
<211> 55
<212> PRT
<213> Homo sapiens

```

```

      <400> 1406
Met Phe Ile Gly Ile Trp Val Ser Leu Tyr Gln Val Leu Trp Leu Lys
  1      5      10      15
Glu Leu Leu Trp Gly His Tyr Ile Phe Trp Val Ser Arg Lys Met Phe
      20      25      30
Val Tyr Gly Gly Val Gly Gly Lys Thr Ala Asn Ile Cys Arg Lys Gly
      35      40      45
Arg Ile Ile Lys Lys Val *
  50      54

```

```

<210> 1407
<211> 66
<212> PRT

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1407

```

Met Leu Leu Gly Val Arg Ala Val Pro Leu Cys Ser Ala Trp Gln Gly
 1           5           10           15
Ala Val Gly Leu Val Ser Leu Thr Ile Ser Ile Cys Lys His Gly Leu
           20           25           30
Ser Phe Gln Gln Asn Leu Val Pro Gly Lys Ser Asn Val Pro Lys Ala
           35           40           45
Ser Asp Met Pro Arg Cys Pro Pro Val Asp Ala Ala Ala Asn Ser Arg
 50           55           60
Ser Met
65 66

```

&lt;210&gt; 1408

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1408

```

Met Leu Leu Lys Phe Leu Cys Glu Cys Met Pro Ser Leu Leu Leu Ser
 1           5           10           15
Glu Phe Leu Asp Ser Pro Arg Ser Gly Ile Asp Gly Ser Asn Gly Asn
           20           25           30
Ser Met Phe Asn Phe Val Lys Asn Cys His Phe Pro Thr Ala Ala Ala
           35           40           45
Pro Phe Pro Thr Pro Thr Ser Arg Val *
 50           55           57

```

&lt;210&gt; 1409

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1409

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1           5           10           15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
           20           25           30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
           35           40           45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
 50           55           60
Gln Gly Lys Gly Thr Pro Asp *
65           70 71

```

&lt;210&gt; 1410

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 1410

```

Met Arg Phe Leu Leu Trp Phe Ile Leu Arg Gly Arg Gln Leu Val
 1           5           10           15
Pro Leu Arg Pro Arg Arg Ser Pro Leu Pro Asp Thr Asn Ala Pro Leu
      20           25           30
Pro Gly Leu Gly Gly Gly Asp Gly Ser Thr Gln Thr Pro Phe Ala Gln
      35           40           45
Ser Arg Arg Leu *
      50           52

```

&lt;210&gt; 1411

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1411

```

Met Ala Ser Gln Ser Met Cys Phe Leu Trp Leu Ala Pro Val Thr Trp
 1           5           10           15
Cys Val Met Phe Ser Ser Arg Thr Cys Tyr Ser Pro Cys Gly Asn Phe
      20           25           30
Ser Thr Ala Pro Gly Arg Val Ile Phe His Ser Trp Asp Arg Ala Gln
      35           40           45
Phe Val Tyr Ser Phe Leu Ser Arg Trp Arg Leu Gly Leu Phe Pro Pro
      50           55           60
Leu Ala Ser Val Asn Gly Asp Ala Val Ile Met Gly Val Pro Val Phe
      65           70           75           80
Val *
      81

```

&lt;210&gt; 1412

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1412

```

Met Phe Leu Leu Leu Phe Cys Leu Met Phe Asp Phe Thr Lys Val Phe
 1           5           10           15
Phe Ile Leu Leu Leu His Ile Phe Cys Leu Ser Thr Cys Leu Phe Leu
      20           25           30
Gly Leu His Ile Cys Ala Ser Phe His Ala Arg Ala Leu Leu Glu Thr
      35           40           45
Ala Leu Ile Leu Leu Arg Met Lys Ile Ala Gly Phe Gln Val Ile Leu
      50           55           60
Phe Pro Gln Asp Phe Val Leu *
      65           70           71

```

&lt;210&gt; 1413

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1413

```

Met Met Thr Ile Lys Glu Phe Thr Leu Leu Leu Val Ser Leu Gln Phe
 1           5           10           15
Ser Thr Phe Pro Ser Lys Lys Phe Leu Leu Glu Thr His Phe Leu Lys
          20           25           30
Asn Ser Glu Asn Trp Leu Gly Val Val Ala His Ala Cys Ser Leu Ser
          35           40           45
Thr Leu Gly Trp Pro Arg Arg Arg Thr Ala *
          50           55           58

```

&lt;210&gt; 1414

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1414

```

Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1           5           10           15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
          20           25           30
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
          35           40           45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
          50           55           60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
          65           70           75           77

```

&lt;210&gt; 1415

&lt;211&gt; 171

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1415

```

Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 1           5           10           15
Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
          20           25           30
Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
          35           40           45
Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val
          50           55           60
Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn
          65           70           75           80
Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr
          85           90           95
Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile
          100          105          110
Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met
          115          120          125
Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn

```

```

      130              135              140
Val Leu Asp Ala Asn Leu Trp Leu Glu Arg Arg Arg Leu Gly Phe Ser
145              150              155              160
Gly Trp Ser Asn Arg Phe Phe Pro Leu Pro *
              165              170

```

```

<210> 1416
<211> 77
<212> PRT
<213> Homo sapiens

```

```

      <400> 1416
Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Phe
  1              5              10              15
Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
      20              25              30
Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Ala Gly Gln
      35              40              45
Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val Leu Ser Ser
      50              55              60
Val Val Tyr Thr His Gly Cys Gly Cys Val Arg Cys *
      65              70              75 76

```

```

<210> 1417
<211> 249
<212> PRT
<213> Homo sapiens

```

```

      <400> 1417
Met Glu Lys Ile Pro Glu Ile Gly Lys Phe Gly Glu Lys Ala Pro Pro
  1              5              10              15
Ala Pro Ser His Val Trp Arg Pro Ala Ala Leu Phe Leu Thr Leu Leu
      20              25              30
Cys Leu Leu Leu Ile Gly Leu Gly Val Leu Ala Ser Met Phe His
      35              40              45
Val Thr Leu Lys Ile Glu Met Lys Lys Met Asn Lys Leu Gln Asn Ile
      50              55              60
Ser Glu Glu Leu Gln Arg Asn Ile Ser Leu Gln Leu Met Ser Asn Met
      65              70              75              80
Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr Ile
      85              90              95
Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His Lys
      100              105              110
Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys Tyr
      115              120              125
Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala Cys
      130              135              140
Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala Leu
145              150              155              160
Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly Leu
      165              170              175
Ser Pro Glu Glu Asp Ser Thr Arg Gly Met Arg Val Asp Asn Ile Ile
      180              185              190

```

```

Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn Met
      195                200                205
Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys Thr
      210                215                220
Tyr Lys Gln Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln Leu
225                230                235                240
Gly Ser Thr Tyr Phe Arg Glu Ala *
      245                248

```

```

<210> 1418
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1418
Met Gly Leu Lys Asn Val Phe Leu Pro Val Phe Leu Pro Phe Leu Leu
 1                5                10                15
Tyr Ser Glu Phe Leu Ser Leu Pro Pro Ser Leu Ser Ser Ser Leu Leu
      20                25                30
Pro Phe Leu Pro Phe Ser Leu Pro Gly His Phe Ser Asn Leu His Gln
      35                40                45
Arg Tyr Leu Lys Cys Trp Tyr Leu Arg Ile Ser Val Thr Pro Leu Ile
 50                55                60                64
*
```

```

<210> 1419
<211> 468
<212> PRT
<213> Homo sapiens

```

```

<400> 1419
Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1                5                10                15
Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
      20                25                30
Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
      35                40                45
Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50                55                60
Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65                70                75                80
Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
      85                90                95
Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
      100                105                110
Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
      115                120                125
Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130                135                140
Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145                150                155                160
Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln

```

```

      165      170      175
Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
      180      185      190
His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
      195      200      205
Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
      210      215      220
Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
      225      230      235      240
Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
      245      250      255
Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
      260      265      270
Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
      275      280      285
Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
      290      295      300
Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
      305      310      315      320
Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
      325      330      335
Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
      340      345      350
Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
      355      360      365
Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
      370      375      380
Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
      385      390      395      400
Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
      405      410      415
Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
      420      425      430
Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
      435      440      445
Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
      450      455      460
Ile Pro Lys *
465      467

```

```

<210> 1420
<211> 150
<212> PRT
<213> Homo sapiens

```

```

      <400> 1420
Met Ile Arg Cys Leu Ala Gln Pro Ala Ala Val Leu Ser Ser Leu Gly
  1      5      10      15
Leu Ala Gln Val Leu Gly Asp Ser Gly Arg Asp Glu Gln Val Leu Leu
      20      25      30
Arg Arg Ser Phe Arg Ala Glu Gly Cys Val Leu Cys Leu Cys Thr Trp
      35      40      45
Gly Thr Ala Val Pro Trp His Lys Val Glu Gly Ser Gly Gly Pro Cys
      50      55      60
Arg Ser Ala Ala Pro Leu Pro Ala Ser Ala Pro Phe Ser Ile Asp Gly
      65      70      75      80

```

```

Arg Ala Val Pro Trp Val Phe Ser Ala Leu Gln Ala Glu Val Gly Val
      85                      90                      95
Leu Gly Glu Gln Met Arg Asp Gly Arg Gly Leu Cys Gly Ser His Pro
      100                    105                    110
Trp Val Leu Gln Leu Ser Trp Pro Gly Val Phe Pro Gln Cys Trp Leu
      115                    120                    125
Cys Pro Arg Leu Val Cys Leu Ala Lys Gln Asn Trp Gln Cys Pro Phe
      130                    135                    140
Glu Thr Pro Arg Lys *
145                      149

```

```

<210> 1421
<211> 89
<212> PRT
<213> Homo sapiens

```

```

<400> 1421
Met Tyr Val Phe Leu Leu Cys Pro Ala Cys Gly Arg Leu Met Gly Ser
 1      5                      10                      15
Thr Tyr Met Arg Leu Leu Pro Gln Ser Glu Pro Ala Leu His Asn Arg
      20                    25                    30
Ile Leu Arg Gln Thr Glu Pro Leu Leu Tyr Phe Lys Arg Gly Lys Gln
      35                    40                    45
Gln Gly Leu Phe Tyr Ala Ser Phe Pro Ala Val His Arg Met Asp Ser
      50                    55                    60
Leu Leu Arg Arg Thr Val Val Ile Leu Tyr Lys Arg Thr Asn Thr Val
      65                    70                    75                    80
Gly Val Ser Leu Phe Gln Asn Ala *
      85                      88

```

```

<210> 1422
<211> 83
<212> PRT
<213> Homo sapiens

```

```

<400> 1422
Met Met Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1      5                      10                      15
Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
      20                    25                    30
Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
      35                    40                    45
Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
      50                    55                    60
Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
      65                    70                    75                    80
Ser Arg *
      82

```

```

<210> 1423
<211> 54

```

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1423

```

Met Ile Leu Phe Pro Leu Cys Pro Ser Ile Leu Ser Leu Lys Pro Lys
 1             5             10             15
Lys Lys Glu Ala Leu Pro Ser Leu Ser Val Met Gly Thr Val Phe Leu
             20             25             30
Leu Val Ser Cys Ser Leu Pro Ser Pro Ala Ala Cys Gly Arg Asn Ala
             35             40             45
Ala Thr Ala Gln His *
             50             53

```

&lt;210&gt; 1424

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1424

```

Met Cys Phe Ser Cys Leu Pro Leu Gln Cys Leu Ala Met Gly His Lys
 1             5             10             15
His Tyr Pro Ala Val Gly Arg Leu Ala Lys Arg Ser Gln Leu Ala Ser
             20             25             30
Pro Ala Ser Ser Arg Glu Trp Asn His Gly Ser Asn Thr Leu Leu Arg
             35             40             45
Lys Gln Lys Leu Tyr Gly His Ile Phe His Leu Leu Ser Pro Arg Asn
             50             55             60
His Met Tyr Cys Asp Pro Ala His *
             65             70             72

```

&lt;210&gt; 1425

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1425

```

Met Ala Cys Tyr Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu
 1             5             10             15
Ile Ala Val Phe Asn Asn Thr Phe Phe Glu Val Lys Ser Ile Ser Asn
             20             25             30
Gln Val Trp Lys Phe Gln Arg Tyr Gln Leu Ile Met Thr Phe His Glu
             35             40             45
Arg Pro Val Leu Pro Pro Pro Leu Ile Ile Phe Ser His Met Thr Met
             50             55             60
Ile Phe Gln His Leu Cys Cys Arg Trp Arg Lys His Glu Ser Asp Pro
             65             70             75             80
Asp Glu Arg Asp Tyr Gly Leu Lys Leu Phe Ile Thr Asp Asp Glu Leu
             85             90             95
Lys Lys Val His Asp Phe Glu Glu Gln Cys Ile Glu Glu Tyr Phe Arg
             100             105             110
Glu Lys Asp Asp Arg Phe Asn Ser Ser Asn Asp Glu Arg Ile Arg Val
             115             120             125

```

```

Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu Val Asn
 130          135          140
Glu Arg Glu His Ser Met Lys Ala Ser Leu Gln Thr Val Asp Ile Arg
145          150          155          160
Leu Ala Gln Leu Glu Asp Leu Ile Gly Arg Met Ala Thr Ala Leu Glu
          165          170          175
Arg Leu Thr Gly Leu Glu Arg Ala Glu Ser Asn Lys Ile Arg Ser Arg
          180          185          190
Thr Ser Ser Asp Cys Thr Asp Ala Arg Leu His Trp Pro Val Arg Ala
          195          200          205
Ala Leu Thr Ser Gln Glu Arg Glu His Leu Ser Ala Pro Lys Arg Gly
210          215          220
Leu Glu Pro Trp Gln Asn Ile Leu Phe Ile Gln Tyr Lys Pro Ala Ala
225          230          235          240
Ser Ser Ser Thr *
          244

```

&lt;210&gt; 1426

&lt;211&gt; 520

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(520)

&lt;223&gt; Xaa = any amino acid or nothing

&lt;400&gt; 1426

```

Met Asp Ile Leu Leu Leu Leu Phe Phe Met Ile Ile Phe Ala Ile
 1          5          10          15
Leu Gly Phe Tyr Leu Phe Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser
          20          25          30
Thr Leu Glu Asn Ser Ile Val Ser Leu Phe Val Leu Leu Thr Thr Ala
          35          40          45
Asn Phe Pro Asp Val Met Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser
          50          55          60
Cys Val Phe Phe Ile Val Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met
          65          70          75          80
Asn Leu Leu Leu Ala Val Val Phe Asp Thr Phe Asn Asp Ile Glu Lys
          85          90          95
Arg Lys Phe Lys Ser Leu Leu Leu His Lys Arg Thr Ala Ile Gln His
          100          105          110
Ala Tyr Arg Leu Leu Ile Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr
          115          120          125
Arg Gln Phe Glu Gly Leu Met Arg Phe Tyr Lys Pro Arg Met Ser Ala
          130          135          140
Arg Glu Arg Tyr Leu Thr Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro
145          150          155          160
Leu Leu Ser Leu Lys Asp Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu
          165          170          175
Lys Trp Lys Ala Thr Lys Asn Arg Glu His Trp Val Asp Glu Leu Pro
          180          185          190
Arg Thr Ala Leu Leu Ile Phe Lys Gly Ile Asn Ile Leu Val Lys Ala
          195          200          205
Lys Ala Phe Gln Tyr Phe Met Tyr Leu Val Val Ala Val Asn Gly Val
210          215          220
Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn Phe Phe Ser

```



```

225          230          235          240
Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val
          245          250          255
Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser
          260          265          270
Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe Ala Phe Leu
          275          280          285
Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr Phe Ile Val
          290          295          300
Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg
305          310          315          320
Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro Arg Met Ala
          325          330          335
Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val
          340          345          350
Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys Cys Asn Thr
          355          360          365
Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr Val Gly Asn
          370          375          380
Arg Thr Val Val Glu Glu Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn
385          390          395          400
Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val Val Asn Asn
          405          410          415
Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser His Trp Ser
          420          425          430
Arg Leu Tyr Phe Met Thr Phe Tyr Ile Ala Thr Met Val Val Met Thr
          435          440          445
Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg Met Asn Tyr
          450          455          460
Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile Thr Leu Glu
465          470          475          480
Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu Leu Tyr Arg
          485          490          495
Glu Ala Arg Xaa Ala Ser Ser Asp Val Thr Arg Leu Leu Glu Thr Leu
          500          505          510
Ser Gln Met Glu Arg Tyr Gln Gln
          515          520

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<210> 1427
<211> 106
<212> PRT
<213> Homo sapiens

```

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<400> 1427
Met Ser Pro Gln His Leu Leu Leu Thr Leu Pro Leu Pro Leu Arg Ser
 1          5          10          15
Pro Ile Leu Phe Ser His Thr Ala Gln Leu Leu Val Leu Thr Arg Ile
          20          25          30
Ala Phe Arg Ala Cys Glu Leu Phe Phe Phe Val Met Val Ser Leu Cys
          35          40          45
Cys Pro Gly Ile His Ser Phe Ile Ala Thr Ile Thr Tyr Glu Arg Asn
          50          55          60
Ala Phe Gln Ser Ile Ser Ser Val Gln Gln Gln His Leu His Phe Gly
          65          70          75          80
Cys Ala Leu Ser Pro Pro Ala Pro Arg Glu Ser Phe Ser Pro Cys Leu
          85          90          95

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Thr Thr His Arg Leu Pro Ser Cys Phe \*  
 100 105

<210> 1428  
 <211> 841  
 <212> PRT  
 <213> Homo sapiens

<400> 1428  
 Met Ala Leu Ala Ser Ala Ala Pro Gly Ser Ile Phe Cys Lys Gln Leu  
 1 5 10 15  
 Leu Phe Ser Leu Leu Val Leu Thr Leu Leu Cys Asp Ala Cys Gln Lys  
 20 25 30  
 Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly  
 35 40 45  
 Lys Val Asn Leu Glu Glu Cys Leu Lys Ser Ala Ser Leu Ile Arg Ser  
 50 55 60  
 Ser Asp Pro Ala Phe Arg Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr  
 65 70 75 80  
 His Asp Leu Ile Leu Ser Ser Glu Arg Lys Ser Phe Ser Ile Phe Leu  
 85 90 95  
 Ser Asp Gly Gln Arg Arg Glu Gln Gln Glu Ile Lys Val Val Leu Ser  
 100 105 110  
 Ala Arg Glu Asn Lys Ser Pro Lys Lys Arg His Thr Lys Asp Thr Ala  
 115 120 125  
 Leu Lys Arg Ser Lys Arg Arg Trp Ala Pro Ile Pro Ala Ser Leu Met  
 130 135 140  
 Glu Asn Ser Leu Gly Pro Phe Pro Gln His Val Gln Gln Ile Gln Ser  
 145 150 155 160  
 Asp Ala Ala Gln Asn Tyr Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly  
 165 170 175  
 Val Asp Lys Glu Pro Phe Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly  
 180 185 190  
 Asp Ile Phe Cys Thr Arg Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe  
 195 200 205  
 Ala Leu Tyr Gly Tyr Ala Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr  
 210 215 220  
 Pro Leu Pro Leu Ile Ile Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro  
 225 230 235 240  
 Tyr Phe Glu His Arg Val Thr Ile Phe Thr Val Pro Glu Asn Cys Arg  
 245 250 255  
 Ser Gly Thr Ser Val Gly Lys Val Thr Ala Thr Asp Leu Asp Glu Pro  
 260 265 270  
 Asp Thr Leu His Thr Arg Leu Lys Tyr Lys Ile Leu Gln Gln Ile Pro  
 275 280 285  
 Asp His Pro Lys His Phe Ser Ile His Pro Asp Thr Gly Val Ile Thr  
 290 295 300  
 Thr Thr Thr Pro Phe Leu Asp Arg Glu Lys Cys Asp Thr Tyr Gln Leu  
 305 310 315 320  
 Ile Met Glu Val Arg Asp Met Gly Gly Gln Pro Phe Gly Leu Phe Asn  
 325 330 335  
 Thr Gly Thr Ile Thr Ile Ser Leu Glu Asp Glu Asn Asp Asn Pro Pro  
 340 345 350  
 Ser Phe Thr Glu Thr Ser Tyr Val Thr Glu Val Glu Glu Asn Arg Ile  
 355 360 365  
 Asp Val Glu Ile Leu Arg Met Lys Val Gln Asp Gln Asp Leu Pro Asn

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      370              375              380
Thr Pro His Ser Lys Ala Val Tyr Lys Ile Leu Gln Gly Asn Glu Asn
385              390              395              400
Gly Asn Phe Ile Ile Ser Thr Asp Pro Asn Thr Asn Glu Gly Val Leu
      405              410              415
Cys Val Val Lys Pro Leu Asn Tyr Glu Val Asn Arg Gln Val Ile Leu
      420              425              430
Gln Val Gly Val Ile Asn Glu Ala Gln Phe Ser Lys Ala Ala Ser Ser
      435              440              445
Gln Thr Pro Thr Met Cys Thr Thr Thr Val Thr Val Lys Ile Ile Asp
450              455              460
Ser Asp Glu Gly Pro Glu Cys His Pro Pro Val Lys Val Ile Gln Ser
465              470              475              480
Gln Asp Gly Phe Pro Ala Gly Gln Glu Leu Leu Gly Tyr Lys Ala Leu
      485              490              495
Asp Pro Glu Ile Ser Ser Gly Glu Gly Leu Arg Tyr Gln Lys Leu Gly
      500              505              510
Asp Glu Asp Asn Trp Phe Glu Ile Asn Gln His Thr Gly Asp Leu Arg
      515              520              525
Thr Leu Lys Val Leu Asp Arg Glu Ser Lys Phe Val Lys Asn Asn Gln
530              535              540
Tyr Asn Ile Ser Val Val Ala Gly Asp Ala Val Gly Arg Ser Cys Thr
545              550              555              560
Gly Thr Leu Val Val His Leu Asp Asp Tyr Asn Asp His Ala Pro Gln
      565              570              575
Ile Asp Lys Glu Val Thr Ile Cys Gln Asn Asn Glu Asp Phe Val Val
      580              585              590
Leu Lys Pro Val Asp Pro Asp Gly Pro Glu Asn Gly Pro Pro Phe Gln
      595              600              605
Phe Phe Leu Asp Asn Ser Ala Ser Lys Asn Trp Asn Ile Lys Lys Lys
610              615              620
Asp Gly Lys Thr Ala Ile Leu Arg Gln Arg Gln Asn Leu Asp Tyr Asn
625              630              635              640
Tyr Tyr Ser Val Pro Ile Gln Ile Lys Asp Arg His Gly Leu Val Ala
      645              650              655
Thr His Met Leu Thr Val Arg Val Cys Asp Cys Ser Thr Pro Ser Glu
      660              665              670
Cys Thr Met Lys Asp Lys Ser Thr Arg Asp Val Arg Pro Asn Val Ile
675              680              685
Leu Gly Arg Trp Ala Ile Leu Ala Met Val Leu Gly Ser Val Leu Leu
690              695              700
Leu Cys Ile Leu Phe Thr Cys Phe Cys Val Thr Ala Lys Arg Thr Val
705              710              715              720
Lys Lys Cys Phe Pro Glu Asp Ile Ala Gln Gln Asn Leu Ile Val Ser
      725              730              735
Asn Thr Glu Gly Pro Gly Glu Glu Val Thr Glu Ala Asn Ile Arg Leu
      740              745              750
Pro Met Gln Thr Ser Asn Ile Cys Asp Thr Ser Met Ser Val Gly Thr
755              760              765
Val Gly Gly Gln Gly Ile Lys Thr Gln Gln Ser Phe Glu Met Val Lys
770              775              780
Gly Gly Tyr Thr Leu Asp Ser Asn Lys Gly Gly Gly His Gln Thr Leu
785              790              795              800
Glu Ser Val Lys Gly Val Gly Gln Gly Asp Thr Gly Arg Tyr Ala Tyr
      805              810              815
Thr Asp Trp Gln Ser Phe Thr Gln Pro Arg Leu Gly Glu Glu Ser Ile
820              825              830
Arg Gly His Thr Leu Ile Lys Asn *
835              840

```

<210> 1429  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<400> 1429  
 Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys  
 1 5 10 15  
 Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val  
 20 25 30  
 Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu  
 35 40 45  
 Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr  
 50 55 60  
 Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe  
 65 70 75 80  
 Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg  
 85 90 95  
 Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu  
 100 105 110  
 Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr  
 115 120 125  
 Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro  
 130 135 140  
 Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr  
 145 150 155 160  
 Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly  
 165 170 175  
 Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile  
 180 185 190  
 Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val  
 195 200 205  
 Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro  
 210 215 220  
 Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu  
 225 230 235 240  
 Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln  
 245 250 255  
 Gly Lys Thr Lys Asn \*  
 260 261

<210> 1430  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 1430  
 Met Ser Tyr Thr Ala Phe Leu Ser Val Cys Cys Leu Pro Leu Leu Pro  
 1 5 10 15  
 Leu Cys Asp Phe Ala Leu Tyr Val Leu Leu Asp Lys Phe Lys Gly Gly  
 20 25 30  
 Phe Arg Gln Gln Asn Ser Pro Gln Ser Ile Tyr Gln His Asn Pro Tyr

35                      40                      45  
 Gln Asn Pro Asn Asn Val Leu Ile Phe Leu Gln Lys Trp Lys Asn Arg  
     50                      55                      60  
 Cys \*  
   65

<210> 1431  
 <211> 437  
 <212> PRT  
 <213> Homo sapiens

<400> 1431  
 Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys  
   1                      5                      10                      15  
 Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg  
           20                      25                      30  
 Ser Asp Gly Gly Asn Phe Leu Asp Lys Gln Trp Leu Thr Thr Ile  
           35                      40                      45  
 Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu  
           50                      55                      60  
 Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp  
   65                      70                      75                      80  
 Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser  
           85                      90                      95  
 Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile  
           100                      105                      110  
 Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His  
           115                      120                      125  
 Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val  
           130                      135                      140  
 Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe  
   145                      150                      155                      160  
 Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser  
           165                      170                      175  
 Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser  
           180                      185                      190  
 Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu  
           195                      200                      205  
 Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly  
           210                      215                      220  
 Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg  
   225                      230                      235                      240  
 Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met  
           245                      250                      255  
 Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu  
           260                      265                      270  
 Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe  
           275                      280                      285  
 Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu  
           290                      295                      300  
 Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu  
   305                      310                      315                      320  
 Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln  
           325                      330                      335  
 Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys  
           340                      345                      350

```

His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
      355                      360                      365
Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
      370                      375                      380
Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
      385                      390                      395                      400
Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
      405                      410                      415
Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
      420                      425                      430
Asp Val Tyr Ile *
      435 436

```

```

<210> 1432
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1432
Met Ser Tyr Val Glu Ile Leu Ile Pro Val Leu Leu Cys Leu His Ala
  1                      5                      10                      15
Phe Phe Pro Ser Ser Arg Arg His Val Ala Trp Phe Leu Ile Phe Ile
      20                      25                      30
Cys Lys Phe Phe Lys Phe Cys Leu Ile Leu Lys Phe Ile Ile Leu Ile
      35                      40                      45
Leu Asn Tyr Leu *
      50                      52

```

```

<210> 1433
<211> 76
<212> PRT
<213> Homo sapiens

```

```

<400> 1433
Met Glu Leu Lys Gly Phe Trp Leu Cys Leu Phe Leu Arg Phe Val Lys
  1                      5                      10                      15
Trp Phe Val Asn Lys Gly Met Ile Leu Cys Thr Leu Phe Tyr Asn Leu
      20                      25                      30
Ile Tyr Ser Leu Tyr Asn Met Cys Trp Thr Val Leu Trp Ile Arg Lys
      35                      40                      45
Tyr Gln Thr Leu Leu Lys Glu Ser Phe Phe Ser Leu Asn Thr Phe Leu
      50                      55                      60
Phe Lys Asp Lys Ala Ser Thr Ser Ile Pro Leu *
      65                      70                      75

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```

<210> 1434
<211> 169
<212> PRT
<213> Homo sapiens

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&lt;400&gt; 1434

```

Met Glu Ser Trp Trp Gly Leu Pro Cys Leu Ala Phe Leu Cys Phe Leu
 1          5          10          15
Met His Ala Arg Gly Gln Arg Asp Phe Asp Leu Ala Asp Ala Leu Asp
          20          25          30
Asp Pro Glu Pro Thr Lys Lys Pro Asn Ser Asp Ile Tyr Pro Lys Pro
          35          40          45
Lys Pro Pro Tyr Tyr Pro Gln Pro Glu Asn Pro Asp Ser Gly Gly Asn
          50          55          60
Ile Tyr Pro Arg Pro Lys Pro Arg Pro Gln Pro Gln Pro Gly Asn Ser
 65          70          75          80
Gly Asn Ser Gly Gly Ser Tyr Phe Asn Asp Val Asp Arg Asp Asp Gly
          85          90          95
Arg Tyr Pro Pro Arg Pro Arg Pro Arg Pro Pro Ala Gly Gly Gly Gly
          100          105          110
Gly Gly Tyr Ser Ser Tyr Gly Asn Ser Asp Asn Thr His Gly Gly Asp
          115          120          125
His His Ser Thr Tyr Gly Asn Pro Glu Gly Asn Met Val Ala Lys Ile
 130          135          140
Val Ser Pro Ile Val Ser Val Val Val Thr Leu Leu Gly Ala Ala
 145          150          155          160
Ala Gln Leu Phe Gln Thr Lys Gln *
          165          168

```

&lt;210&gt; 1435

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1435

```

Met Arg Phe Val Thr Leu Ser Ser Ala Cys Leu Cys Pro Cys Pro Leu
 1          5          10          15
Gly Pro Cys Trp Thr Arg His Pro Ser Tyr Gly Asn Leu His Glu Ala
          20          25          30
Ser Thr Ser Leu Pro Pro Arg His Trp Thr Gly Ala Arg Lys Trp Asn
          35          40          45
Glu Ser Ser His Cys Leu Lys Ser Trp Arg Pro Ser Ser Ala Ser Gly
          50          55          60
Ser Pro Glu Asn Leu Gly Ser Asp Arg Arg Thr Glu Thr Glu Gly Arg
 65          70          75          80
Glu Arg Asp Cys Asp Arg Glu Ala Glu Glu Gly Asp Arg Val Arg Glu
          85          90          95
Glu Gln Asn Ser Leu Gln Trp Glu Gln Arg Gln Lys Cys Gly Gly Pro
          100          105          110
Thr Gly Arg Gly Gly Arg Glu Gly Gly Arg Arg Glu Gly Gln Leu
          115          120          125
Pro Val Gln Val Ala Val Arg Ala Leu Gly Leu Gly Arg Gly Thr Leu
 130          135          140
Leu Leu Leu Ala Ser His Thr Gly Ser Ile Arg Gly Pro Arg Glu Gln
 145          150          155          160
Val Ser
 162

```

&lt;210&gt; 1436

<211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1436  
 Met Trp Ile Val Leu Leu Gly Gly Phe Val Gly Pro Leu Tyr Leu Thr  
 1 5 10 15  
 Pro Ala Pro Ser Pro Cys Thr His Thr Leu Gly Val Arg Ala Val Pro  
 20 25 30  
 Leu Val Thr Gly Leu Thr Ser Gln Leu Trp Leu Asn Ala Ala Gly Glu  
 35 40 45  
 Ser Leu Thr Tyr Arg Met Trp Ser Met Ala Ser Met Thr Glu Gln Pro  
 50 55 60  
 Glu Leu Ser Glu Met Tyr Met Leu Pro Thr Leu His Glu  
 65 70 75 77

<210> 1437  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1437  
 Met Cys Ser Leu Pro Arg His Leu Leu Phe Leu Ile Ile Phe Arg Ala  
 1 5 10 15  
 Tyr Ser Leu Ala Val Asp Leu Ser Thr His Ser Leu Thr Thr Ala Lys  
 20 25 30  
 Phe Pro Ser Pro Ile Val Leu Pro Thr Leu Tyr Arg Ser Val Ile Val  
 35 40 45  
 Ala Gly Ile Trp Lys Pro Ser Ser Asp Thr Ser Ser Pro Gly Pro Ser  
 50 55 60  
 Phe Ser Ser Ile Glu Leu Gln Thr Leu Val Asp Ala Ser Asp Val Glu  
 65 70 75 80  
 Glu Pro Pro Cys \*  
 84

<210> 1438  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1438  
 Met Ile Gly Asp Ile Leu Leu Phe Gly Thr Leu Leu Met Asn Ala Gly  
 1 5 10 15  
 Ala Val Leu Asn Phe Lys Leu Lys Lys Lys Asp Thr Gln Gly Phe Gly  
 20 25 30  
 Glu Glu Ser Arg Glu Pro Ser Thr Gly Asp Asn Ile Arg Glu Phe Leu  
 35 40 45  
 Leu Ser Leu Arg Tyr Phe Arg Ile Phe Ile Ala Leu Trp Asn Ile Phe  
 50 55 60  
 Met Met Phe Cys Met Ile Val Leu Phe Gly Ser \*  
 65 70 75